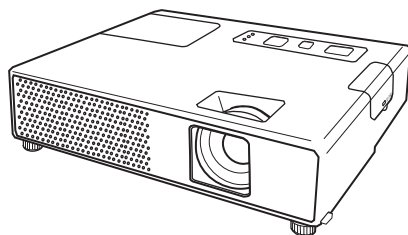**Projector**

CPX4
User's Manual (detailed)
Operating Guide

Thank you for purchasing this projector.

⚠**WARNING** ►Before using this product, please read all manuals for this product. Be sure to read "Safety Guide" first. After reading them, store them in a safe place for future reference.

About this manual

Various symbols are used in this manual. The meanings of these symbols are described below.

⚠**WARNING** This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.

⚠**CAUTION** This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.

📖 Please refer to the pages written following this symbol.

NOTE • The information in this manual is subject to change without notice.
• The manufacturer assumes no responsibility for any errors that may appear in this manual.
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Content

Projector features

This projector has a capability to project various picture signals onto a screen. This projector requires only a minimal amount of space for installation and can produce a large projected image from even a short distance.
This projector also can give a benefit to mobile users and others by offering IEEE802.11g and IEEE802.11b wireless network and 10BASE-T/100BASE-TX wired network communication and a special function named "PC-LESS Presentation". Even without PC, this projector realizes the display on screen, getting JPEG, Bitmap, PNG and MPEG4 from SD Memory Card or USB memory.

Preparations

Contents of package

Please see the "Contents of package" in the **"User's Manual (concise)"** which is a book. Your projector should come with the items shown there. Contact immediately your dealer if anything is missing.

> **NOTE** • Keep the original packing materials, for future reshipment. Be sure to use the original packing materials when moving the projector. Use special caution for the lens.

Fastening the lens cover

To avoid losing the lens cover, please fasten the lens cover to the projector using the enclosed strap.

1. Fix the strap to the strap hole of the lens cover. Thread one end of the strap through the strap hole of the lens cover and make the loop at the end, and let the other end of the strap through the loop. Not have a knot in the strap at either end.

2. Fix the strap to the strap hole of the projector. Thread the other end of the strap through the strap hole of the projector and make the loop there. Let the lens cover with the one end of strap though the loop.

Strap hole

Strap hole
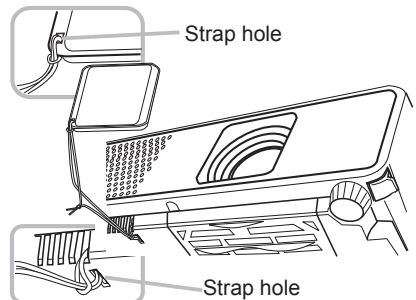
Replacing the filter cover for bottom-up use

For the projector installed bottom-up, please replace the filter cover with the enclosed filter cover for bottom-up use, to keep necessary ventilation space.
Please refer to the "Air filter" (□*63*) for how to detach and attach a filter cover.
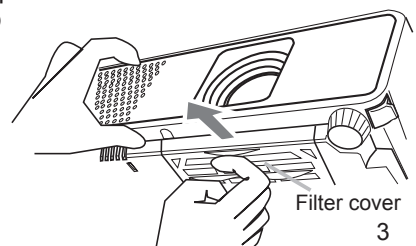
> ⚠**WARNING** ►Consult with your dealer before a special installation such as suspending from a ceiling.

Filter cover

3

Part names

Projector

(1) Lamp cover (**🕮***61*)
The lamp unit is inside.
(2) Focus ring (**🕮***18*)
(3) Zoom ring (**🕮***18*)
(4) Control panel (**🕮***5*)
(5) SD card slot cover (**🕮***10*)
(6) Elevator knobs (x 2) (**🕮***18*)
(7) Elevator feet (x 2) (**🕮***18*)
(8) Lens (**🕮***14, 65*)
(9) Lens cover (**🕮***3*)
(10) Intake vents
(11) Filter cover (**🕮***63*)
The air filter and intake vent are inside.
(12) Speaker (**🕮***35*)
(13) Exhaust vents
(14) AC inlet (**🕮***11*)
(15) **LAN** port (**🕮***8*)
(16) **USB STORAGE** port (**🕮***8*)
(17) **USB** port (**🕮***8, 13*)
(18) **COMPUTER IN** port (**🕮***8*)
(19) **VIDEO** port (**🕮***8*)
(20) **S-VIDEO** port (**🕮***8*)
(21) Security slot (**🕮***11*)
(22) Shutdown switch (**🕮***68*)
(23) **AUDIO OUT** port (**🕮***8*)
(24) **AUDIO IN** port (**🕮***8*)
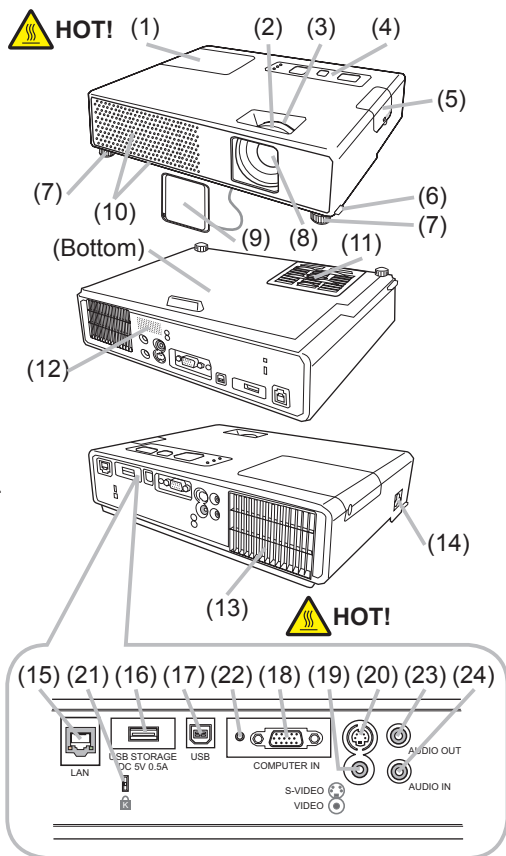
⚠**WARNING** ►**HOT! :** Do not touch around the lamp cover and the exhaust vents during use or just after use, since it is too hot.
►Do not look into the lens or vents while the lamp is on, since the strong light is not good for your eyes.
►Do not handle the elevator knobs without holding the projector, since the projector may drop down.
⚠**CAUTION** ►Maintain normal ventilation to prevent the projector from heating up. Do not cover, block or plug up the vents. Do not place anything that can stick or be sucked to the vents, around the intake vents. Clean the air filter periodically.
►Do not use the security slot to prevent the projector from falling down, since it is not designed for it.
►Use the shutdown switch only when the projector is not turned off by normal procedure, since pushing this switch stops operation of the projector without cooling it down.

Control panel

(1) **STANDBY/ON** button (📖*14*)
(2) **INPUT**/**ENTER** button (📖*15, 22*)
(3) **MENU** button (📖*22*)
  It consists of four cursor buttons.
(4) **POWER** indicator (📖*14, 67*)
(5) **TEMP** indicator (📖*67*)
(6) **LAMP** indicator (📖*67*)
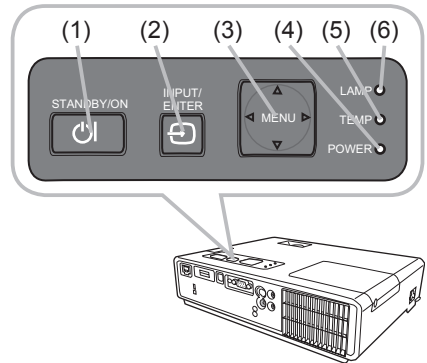
Remote control

(1) **VIDEO** button (📖*16*)
(2) **COMPUTER** button (📖*16*)
(3) **SEARCH** button (📖*17*)
(4) **STANDBY/ON** button (📖*14*)
(5) **ASPECT** button (📖*17*)
(6) **AUTO** button (📖*19*)
(7) **BLANK** button (📖*21*)
(8) **MAGNIFY - ON** button (📖*20*)
(9) **MAGNIFY - OFF** button (📖*13, 20*)
(10) **MY SOURCE/DOC.CAMERA** button (📖*16, 42*)
(11) **VOLUME -** button (📖*13, 15*)
(12) **PAGE UP** button (📖*13*)
(13) **PAGE DOWN** button (📖*13*)
(14) **VOLUME +** button (📖*13, 15*)
(15) **MUTE** button (📖*13, 15*)
(16) **FREEZE** button (📖*21*)
(17) **MY BUTTON - 1** button (📖*42*)
(18) **MY BUTTON - 2** button (📖*42*)
(19) **KEYSTONE** button (📖*20*)
(20) **POSITION** button (📖*19*)
(21) **MENU** button (📖*22*)
(22) **▲**/**▼**/**◄**/**►** cursor buttons (📖*13, 22*)
(23) **ENTER** button (📖*13, 22*)
(24) **ESC** button (📖*13, 22*)
(25) **RESET** button (📖*13, 22*)
(26) Battery cover (📖*12*)
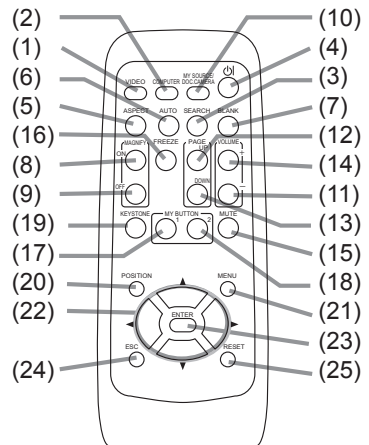
Back of
the remote control

5
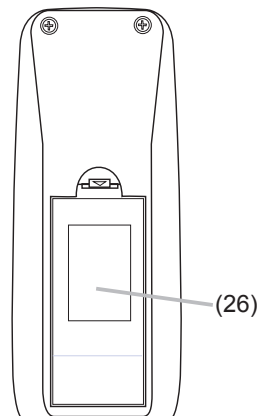
Setting up

Install the projector according to the environment and manner the projector will be used in.

Arrangement

Refer to the illustrations and tables below to determine screen size and projection distance.

The values shown in the table are calculated for a full size screen: 1024×768.

(a) Screen size (diagonal)
(b) Projection distance (±10%)
(c) Screen height (±10%)

On a horizontal surface
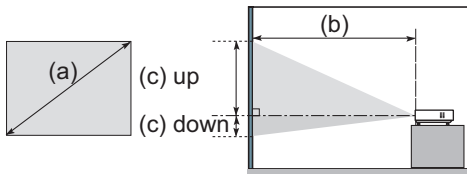
Suspended from the ceiling
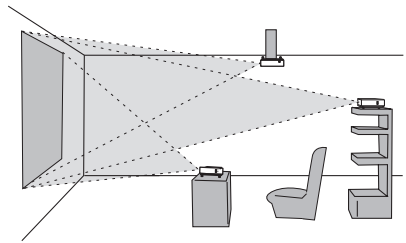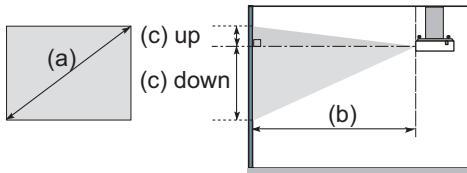
• Keep a space of 30 cm or more between the sides of the projector and other objects such as walls.
• Consult with your dealer before a special installation such as suspending from a ceiling.

(a) Screen size (diagonal)		4 : 3 screen								16 : 9 screen							
		(b) Projection distance				(c) Screen height				(b) Projection distance				(c) Screen height			
		min.		max.		down		up		min.		max.		down		up	
inch	m	m	inch	m	inch	cm	inch	cm	inch	m	inch	m	inch	cm	inch	cm	inch
30	0.8	0.8	30	0.9	36	7	3	39	15	0.8	33	1.0	39	1	0	37	14
40	1.0	1.0	40	1.2	48	9	3	52	21	1.1	44	1.3	53	1	0	49	19
50	1.3	1.3	50	1.5	61	11	4	65	26	1.4	55	1.7	66	1	1	61	24
60	1.5	1.5	61	1.9	73	13	5	78	31	1.7	66	2.0	79	2	1	73	29
70	1.8	1.8	71	2.2	85	15	6	91	36	2.0	77	2.4	93	2	1	85	34
80	2.0	2.1	81	2.5	97	17	7	105	41	2.2	88	2.7	106	2	1	97	38
90	2.3	2.3	91	2.8	110	20	8	118	46	2.5	100	3.0	120	2	1	110	43
100	2.5	2.6	102	3.1	122	22	9	131	51	2.8	111	3.4	133	3	1	122	48
120	3.0	3.1	122	3.7	147	26	10	157	62	3.4	133	4.1	160	3	1	146	58
150	3.8	3.9	153	4.7	183	33	13	196	77	4.2	166	5.1	200	4	2	183	72
200	5.1	5.2	204	6.2	245	44	17	261	103	5.6	222	6.8	267	5	2	243	96
250	6.4	6.5	255	7.8	306	54	21	327	129	7.1	278	8.5	334	7	3	304	120
300	7.6	7.8	306	9.3	368	65	26	392	154	8.5	334	10.2	400	8	3	365	144

⚠**WARNING** ►Place the projector in a stable horizontal position. If the projector falls or is knocked over it could cause injury and/or damage to the projector. Using a damaged projector could then result in fire and/or electric shock.
• Do not place the projector on an unstable, slanted or vibrational surface such as a wobbly or inclined stand.
• Do not place the projector on its side, front or rear position.
• Consult with your dealer before a special installation such as suspending from a ceiling.
►Place the projector in a cool place, and ensure that there is sufficient ventilation. The high temperature of the projector could cause fire, burns and/ or malfunction of the projector.
• Do not stop-up, block or otherwise cover the projector's vents.
• Keep a space of 30 cm or more between the sides of the projector and other objects such as walls.
• Do not place the projector on metallic thing or anything weak in heat.
• Do not place the projector on carpet, cushions or bedding.
• Do not place the projector in direct sunlight or near hot objects such as heaters.
• Do not anything near the projector lens or vents, or on top of the projector.
• Do not place anything that may be sucked into or stick to the vents on the bottom of the projector. This projector has some intake vents also on the bottom.
►Do not place the projector anyplace where it may get wet. Getting the projector wet or inserting liquid into the projector could cause fire, electric shock and/or malfunction of the projector.
• Do not place the projector in a bathroom or the outdoors.
• Do not place anything containing liquid near the projector.
⚠**CAUTION** ►Avoid placing the projector in smoky, humid or dusty place. Placing the projector in such places could cause fire, electric shock and/or malfunction of the projector.

• Do not place the projector near humidifiers, smoking spaces or a kitchen.
►Position the projector to prevent light from directly hitting the projector's remote sensor.

Connecting your devices

Be sure to read the manuals for devices before connecting them to the projector.
Make sure that all the devices are suitable to be connected with this product, and
prepare the cables required to connect.
Please refer to the following illustrations to connect them.
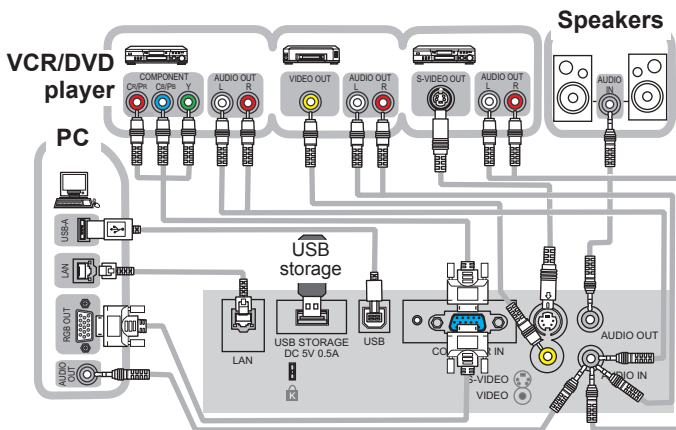
NOTE • The SD card slot is in the side opposite to the lamp cover of the
projector. Please see the "Using an SD card" (📖*10*).
• To display a signal from LAN, USB STORAGE or SD CARD, select the input
signal to "MIU" (📖*15*).
• The **COMPUTER IN** port can support a component signal also. For more
information, please see the description of the COMPUTER IN item of the
INPUT menu (📖*30*).

⚠**WARNING** ►Do not disassemble or modify the projector and accessories.
►Be careful not to damage the cables, and do not use damaged cables.
⚠**CAUTION** ►Turn off all devices and unplug their power cords prior to
connecting them to projector. Connecting a live device to the projector may
generate extremely loud noises or other abnormalities that may result in
malfunction or damage to the device and the projector.
►Use appropriate accessory or otherwise designed cables. Ask your dealer
about non-accessory cables which may have to be of a specific length or
equipped with a core. For cables with a core only at one end, connect the end
with the core to the projector.
►Make sure that devices are connected to the correct ports. An incorrect
connection may result in malfunction or damage to the device and the projector.

Connecting your devices (continued)

NOTE • Be sure to read the manuals for devices before connecting them to the projector, and make sure that all the devices are suitable to be connected with this product. Before connecting to a PC, check the signal level, the signal timing, and the resolution.
- Be sure to consult to the administrator of the network. Do not connect **LAN** port to any network that might have the excessive voltage.
- Some signal may need an adapter to input this projector.
- Some PCs have multiple screen display modes that may include some signals which are not supported by this projector.
- Although the projector can display signals with resolution up to UXGA (1600X1200), the signal will be converted to the projector's panel resolution before being displayed. The best display performance will be achieved if the resolutions of the input signal and the projector panel are identical.
• While connecting, make sure that the shape of the cable's connector fits the port to connect with. And be sure to tighten the screws on connectors with screws.
• When connecting a laptop PC to the projector, be sure to activate the PC's external RGB output. (Set the laptop PC to CRT display or to simultaneous LCD and CRT display.) For details on how this is done, please refer to the instruction manual of the corresponding laptop PC.
• When the picture resolution is changed on a pc depending on an input, automatic adjustment function may take some time and may not be completed. In this case, you may not be able to see a check box to select "Yes/No" for the new resolution on Windows. Then the resolution will go back to the original. It might be recommended to use other CRT or LCD monitors to change the resolution.
• In some cases, this projector may not display a proper picture or display any picture on screen. For example, automatic adjustment may not function correctly with some input signals. An input signal of composite sync or sync on G may confuse this projector, so the projector may not display a proper picture.

About Plug-and-Play capability
Plug-and-Play is a system composed of a PC, its operating system and peripheral equipment (i.e. display devices). This projector is VESA DDC 2B compatible. Plug-and-Play can be used by connecting this projector to a pc that is VESA DDC (display data channel) compatible.
• Take advantage of this feature by connecting an RGB cable to the **COMPUTER IN** port (DDC 2B compatible). Plug-and-Play may not work properly if any other type of connection is attempted.
• Please use the standard drivers in your pc as this projector is a Plug-and-Play monitor.

Using a USB storage

In order to view images stored in a USB storage, such as a USB memory, insert the device into the **USB STORAGE** port.

Before removing the USB storage, be sure to perform the REMOVE procedure using the SERVICE menu under the MIU menu (📖*59*).

Using an SD card

In order to view images in an SD Memory Card (SD card), insert the card into the SD card slot. If the wireless network function is required, load the internal clock battery (📖*64*) and insert the enclosed Wireless network card (SD card) in to the SD card slot.

SD card slot cover

SD card slot

SD card slot

Angled corner

SD card

Inserting an SD card

1. Make sure that the power code is not plugged into the projector.

2. Remove the SD card slot cover. It might be recommended to hook the edge of its side face up to remove it.

3. Slowly insert the SD card completely into the SD card slot. Make sure that the angled corner of the SD card is placed into the right side of the SD card slot, while inserting.

4. Replace the SD card slot cover. It is recommended that the cover is slid sideways to the projector.
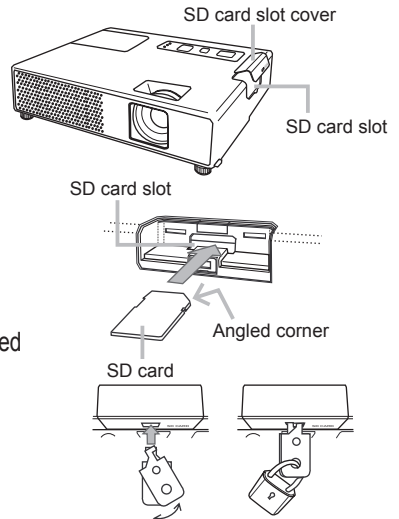
Using the slot cover lock for security

Using the enclosed slot cover lock can prevent the SD card slot cover from being opened.

1. Open the two plates of the slot cover lock to put the tips of two plates together, and then insert the tips to the lock hole of the SD card slot cover.

2. Put the body of the two plates together. Then, hook a padlock or combination lock to the hole of the slot cover lock.

Removing the SD card

When removing "wireless network card", turn the projector off and unplug the power cord.

On the other hand, when removing the "SD Memory Card", be sure to perform the REMOVE procedure using the SERVICE menu under the MIU menu (📖*59*).

NOTE • When using the projector with a wired LAN, please remove the wireless network card.
IMPORTANT NOTE • To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.
• When using wireless network card, please make sure to put the SD card slot cover onto projector top case to protect the card from electrostatic discharge influence.

Connecting power supply

1. Put the connector of the power cord into the AC inlet of the projector.

2. Firmly plug the power cord's plug into the outlet. In a couple of seconds after the power supply connection, the **POWER** indicator will light up in steady orange.

POWER indicator

POWER ●

AC inlet

Connector of the power cord
➡ to the outlet
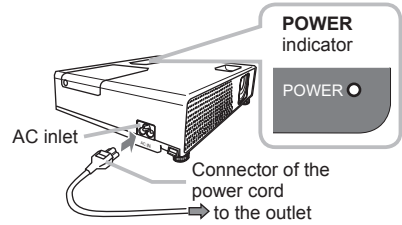
Please remember that when the AUTO ON function (📖*40*) activated, the connection of the power supply make the projector turn on.

⚠**WARNING** ►Please use extra caution when connecting the power cord, as incorrect or faulty connections may result in fire and/or electrical shock.
• Only use the power cord that came with the projector. If it is damaged, contact your dealer to newly get correct one.
• Only plug the power cord into an outlet rated for use with the power cord's specified voltage range. The power outlet should be close to the projector and easily accessible. Remove the power cord for complete separation.
• Never modify the power cord.

Using the security slot

This product has the security slot for the Kensington lock. For details, see the manual of the security tool.

⚠**WARNING** ►Do not use the security slot to prevent the projector from falling down, since it is not designed for it.
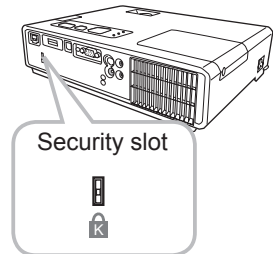
Security slot

NOTE • The security slot is not comprehensive theft prevention measures. It is intended to be used as supplemental theft prevention measure.

Remote control

Putting batteries

Please set the batteries to the remote control before using it. If the remote control starts to malfunction, try to replace the batteries. If you will not use the remote control for long period, remove the batteries from the remote control and store them in a safe place.

1. Holding the hook part of the battery cover, remove it.
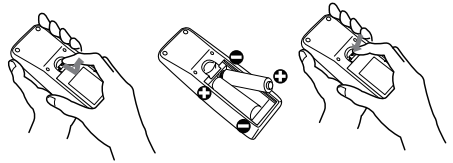
2. Align and insert the two AA batteries **(HITACHI MAXELL, Part No. LR6 or R6P)** according to their plus and minus terminals as indicated in the remote control.

3. Replace the battery cover in the direction of the arrow and snap it back into place.

⚠**WARNING** ►Always handle the batteries with care and use them only as directed. Improper use may result in battery explosion, cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.
• Be sure to use only the batteries specified. Do not use batteries of different types at the same time. Do not mix a new battery with used one.
• Make sure the plus and minus terminals are correctly aligned when loading a battery.
• Keep a battery away from children and pets.
• Do not recharge, short circuit, solder or disassemble a battery.
• Do not allow a battery in a fire or water. Keep batteries in a dark, cool and dry place.
• If you observe a leakage of a battery, wipe out the flower and then replace a battery. If the flower adheres your body or clothes, rinse well with water immediately.
• Obey the local laws on disposing the battery.

About the remote control signal

The remote control works with the projector's remote sensor. This projector has a remote sensor on the front.
The sensor senses the signal within the following range when the sensor is active:
60 degrees (30 degrees to the left and right of the sensor) within 3 meters about.

30°
30°
Approx. 3 m
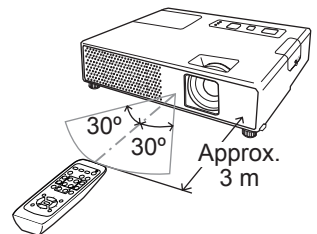
NOTE • The remote control signal reflected in the screen or the like may be available. If it is difficult to send the signal to the sensor directly, attempt to make the signal reflect.
• The remote control uses infrared light to send signals to the projector (Class 1 LED), so be sure to use the remote control in an area free from obstacles that could block the remote control's signal to the projector.
• The remote control may not work correctly if strong light (such as direct sun light) or light from an extremely close range (such as from an inverter fluorescent lamp) shines on the remote sensor of the projector. Adjust the position of projector avoiding those lights.

Changing the frequency of remote control signal

The accessory remote control has the two choices on signal frequency Mode 1:NORMAL and Mode 2:HIGH. If the remote control does not function properly, attempt to change the signal frequency.
In order to set the Mode, please keep pressing the combination of two buttons listed below simultaneously for about 3 seconds.
(1) Set to Mode 1:NORMAL... **VOLUME -** and **RESET** buttons
(2) Set to Mode 2:HIGH... **MAGNIFY OFF** and **ESC** buttons
Please remember that the REMOTE FREQ. in the SERVICE item of the OPTION menu (*44*) of the projector to be controlled should be set to the same mode as the remote control.
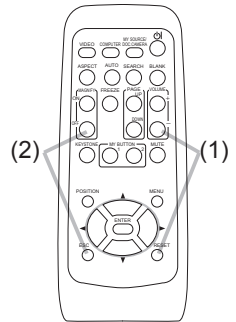
Using as a simple PC mouse & keyboard

The enclosed remote control works as a simple mouse and keyboard of the PC, when the projector's **USB** port (B type) connects with the PC's **USB** port (A type) port via a mouse cable.
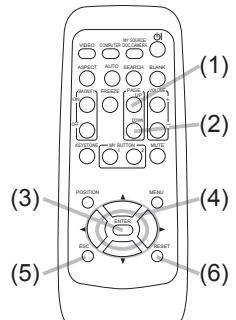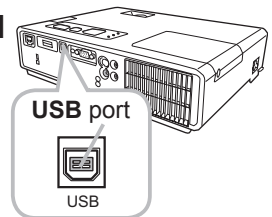
(1) PAGE UP key: Press the **PAGE UP** button.
(2) PAGE DOWN key: Press the **PAGE DOWN** button.
(3) Mouse left button: Press the **ENTER** button.
(4) Move pointer: Use the cursor buttons ▲, ▼, ◄ and ►.
(5) ESC key: Press the **ESC** button.
(6) Mouse right button: Press the **RESET** button.

USB port

USB

⚠**CAUTION** ►Improper use of the simple mouse & keyboard function could damage your equipment. While using this function, please connect this product only to a PC. Be sure to check your PC's manuals before connecting this product to the PC.

NOTE • When the simple mouse & keyboard function of this product does not work correctly, please check the following.
- When the mouse cable connects this projector with a PC having a built-in pointing device (e.g. track ball) like a notebook PC, open BIOS setup menu, then select the external mouse and disable the built-in pointing device, because the built-in pointing device may have priority to this function.
- Windows 95 OSR 2.1 or higher is required for this function. And also this function may not work depending on the PC's configurations and mouse drivers.
- You cannot do things like press two buttons at once (for instance, pressing two buttons at the same time to move the mouse pointer diagonally).
- This function is activated only when the projector is working properly. This function is not available while the lamp is warming up (the **POWER** indicator flashes green), and while adjusting the volume and display, correcting for keystone, zooming in on the screen, using the BLANK function, or displaying the menu screen.
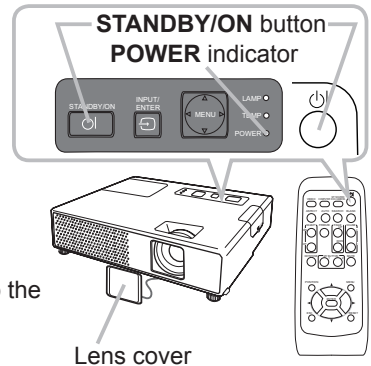
13

Power on/off

Turning on the power

1. Make sure that the **POWER** indicator turns in steady orange and the lens cover is removed.

2. Press the **STANDBY/ON** button on the projector or the remote control.
   The projection lamp will light up and the **POWER** indicator will begin blinking in green. When the power is completely on, the indicator will stop blinking and light in steady green.

To display the picture, select an input signal according to the section "Selecting an input signal" ().

STANDBY/ON button
POWER indicator

Lens cover

Turning off the power

1. Press the **STANDBY/ON** button on the projector or the remote control. The message "Power off?" will appear on the screen for about 5 seconds.

2. Press the **STANDBY/ON** button again while the message appears.
   The projector lamp will go off, and the **POWER** indicator will begin blinking in orange. Then the **POWER** indicator will stop blinking and light in steady orange when the lamp cooling is complete.

3. Attach the lens cover, after the **POWER** indicator turns in steady orange.
   Do not turn the projector on for about 10 minutes after turning it off. Turning the projector on again too soon could shorten the lifetime of some consumable parts of the projector.

⚠**WARNING** ►A strong light is emitted when the projector's power is on. Do not look into the lens of the projector or look inside of the projector through any of the projector's openings.
►Do not touch around the lamp cover and the exhaust vents during use or just after use, since it is too hot.
►Remove the power cord for complete separation.

NOTE • Please power on the projector prior to the connected devices. Power off the projector, after all of connected devices are powered off.
• This projector has the function that can make the projector automatically turn on/off. Please refer to the AUTO ON (📖*40*) and AUTO OFF (📖*41*) items of the OPTION menu.
• Use the shutdown switch (📖*68*) only when the projector is not turned off by normal procedure.

Adjusting the volume

VOLUME +/- button

1. Use the **VOLUME +**/**VOLUME -** buttons to adjust the volume.
A dialog will appear on the screen to aid you in adjusting the volume.
If you do not do anything, the dialog will automatically disappear after
a few seconds.

● When ✕ is selected for current picture input port, the volume
adjustment is disabled. Please see AUDIO item of AUDIO menu (📖*35*).
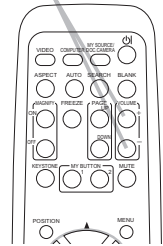
Temporarily muting the sound

MUTE button

1. Press **MUTE** button on the remote control.
A dialog will appear on the screen indicating that you have muted the
sound.
To restore the sound, press the **MUTE**, **VOLUME +** or **VOLUME -**
button. Even if you do not do anything, the dialog will automatically
disappear after a few seconds.

● When ✕ is selected for current picture input port, the sound is always
muted. Please see AUDIO item of AUDIO menu (📖*35*).
● When the sound is muted while a signal from **VIDEO**(NTSC),
S-VIDEO(NTSC) or **COMPUTER IN**(480i@60) port is selected, the
C.C. (Closed Caption) is automatically activated if the DISPLAY item
of the C.C. menu is set to AUTO and the input signal supports the C.C.
feature (📖*60*).
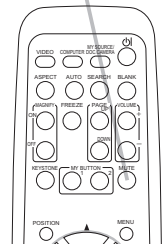
Selecting an input signal

INPUT/ENTER button

1. Press **INPUT/ENTER** button on the projector.
Each time you press the button, the projector switches its
input port from the current port as below.

    → COMPUTER IN → MIU
    └ VIDEO ← S-VIDEO ←

● While TURN ON is selected for AUTO SEARCH item in
OPTION menu (📖*40*), the projector will keep checking the
ports in above order repeatedly till an input signal is detected.
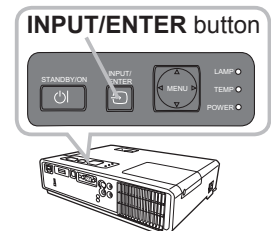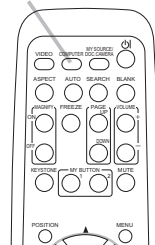
(continued on next page)

Selecting an input signal (continued)

1. Press **COMPUTER** button on the remote control.
    Each time you press the button, the projector switches its input
    port from the current port as below.

    COMPUTER IN ⟷ MIU

    ● While TURN ON is selected for AUTO SEARCH item in OPTION
      menu, the projector will keep checking every port sequentially till
      an input signal is detected (📖*40*). If **COMPUTER** button is pushed
      when **VIDEO** or **S-VIDEO** port is selected, the projector will check
      COMPUTER IN port first.

COMPUTER button

1. Press **VIDEO** button on the remote control.
    Each time you press the button, the projector switches its input
    port from the current port as below.

    S-VIDEO ⟷ VIDEO
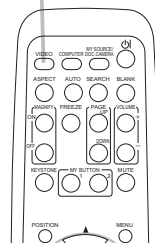
    ● While TURN ON is selected for AUTO SEARCH item in OPTION
      menu, the projector will keep checking every port sequentially till
      an input signal is detected (📖*40*). If **VIDEO** button is pushed when
      COMPUTER IN or **MIU** port is selected, the projector will check
      S-VIDEO port first.

VIDEO button

1. Press the **MY SOURCE / DOC. CAMERA** button on the
    remote control. The input signal will be changed into the
    signal you set as MY SOURCE (📖*42*).
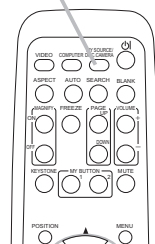
    ● This function also can use for document camera. Select the input
      port that connected the document camera.

**MY SOURCE /
DOC. CAMERA** button

Searching an input signal

SEARCH button

1. Press **SEARCH** button on the remote control.
The projector will start to check its input ports as below in order to find any input signals.
When an input is found, the projector will stop searching and display the image. If no signal is found, the projector will return to the state selected before the operation.

$$\rightarrow \text{COMPUTER IN} \rightarrow \text{MIU}$$
$$\text{VIDEO} \leftarrow \text{S-VIDEO} \leftarrow$$

● While TURN ON is selected for AUTO SEARCH item in OPTION menu (📖*40*), the projector will keep checking the ports in above order repeatedly till an input signal is detected.
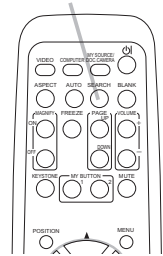
Selecting an aspect ratio

ASPECT button

1. Press **ASPECT** button on the remote control.
Each time you press the button, the projector switches the mode for aspect ratio in turn.

❍ **For a computer or MIU signal**
   NORMAL → 4:3 → 16:9 → SMALL

❍ **For a video signal, s-video signal or component video signal**
   4:3 → 16:9 → 14:9 → SMALL

❍ **For no signal**
   4:3 (fixed)

● **ASPECT** button does not work when no proper signal is inputted.
● NORMAL mode keeps the original aspect ratio setting.

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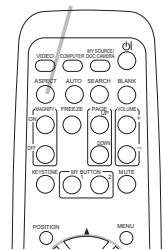
Adjusting the projector's elevator

When the place to put the projector is slightly uneven to the left or right, use the elevator feet to place the projector horizontally.

Using the feet can also tilt the projector in order to project at a suitable angle to the screen, elevating the front side of the projector within 11 degrees.

This projector has 2 elevator feet and 2 elevator knobs. An elevator foot is adjustable while pulling up the elevator knob on the same side as it.

1. Holding the projector, pull the elevator knobs up to loose the elevator feet.

2. Position the front side of the projector to the desired height.

3. Release the elevator knobs in order to lock the elevator feet.

4. After making sure that the elevator feet are locked, put the projector gently.

5. If necessary, the elevator feet can be manually twisted to make more precise adjustments. Hold the projector when twisting the feet.
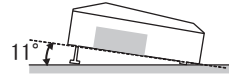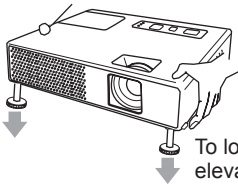
To loose an elevator foot, pull up the elevator knob on the same side as it.

To finely adjust, twist the foot.
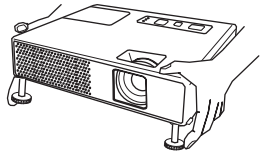
⚠**CAUTION** ►Do not handle the elevator knobs without holding the projector, since the projector may drop down.
►Do not tilt the projector other than it elevating its front within 11 degrees using the adjuster feet. A tilt of the projector exceeding the restriction could cause malfunction or shortening the lifetime of consumables, or the projector itself.

Adjusting the zoom and focus

Focus ring   Zoom ring

1. Use the zoom ring to adjust the screen size.

2. Use the focus ring to focus the picture.

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Using the automatic adjustment feature

1. Press **AUTO** button on the remote control.
   Pressing this button performs the following.

   ❍ **For a computer signal**
   The vertical position, the horizontal position and the horizontal phase will be automatically adjusted.
   Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright picture when adjusting.

   ❍ **For a video signal and s-video signal**
   The video format best suited for the respective input signal will be selected automatically. This function is available only when the AUTO is selected for the VIDEO FORMAT item in the INPUT menu (📖*31*). The vertical position and horizontal position will be automatically set to the default.

   ❍ **For a component video signal**
   The vertical position, horizontal position and horizontal phase will be automatically set to the default.

   ● The automatic adjustment operation requires approx. 10 seconds. Also please note that it may not function correctly with some input. When this function is performed for a video signal, a certain extra such as a line may appear outside a picture.
   ● The items adjusted by this function may vary when the FINE or DISABLE is selected for the AUTO ADJUST item of the SERVICE item in the OPTION menu (📖*43*).

AUTO button

Adjusting the position

1. Press **POSITION** button on the remote control when no menu is indicated.
   The "POSITION" indication will appear on the screen.

2. Use the ▲/▼/◄/► cursor buttons to adjust the picture position.
   When you want to reset the operation, press **RESET** button on the remote control during the operation.
   To complete this operation, press **POSITION** button again.
   Even if you do not do anything, the dialog will automatically disappear after a few seconds.

POSITION button

   ● When this function is performed on a video signal, s-video signal or component video signal, some image such as an extra-line may appear at outside of the picture.
   ● When this function is performed on a video signal, s-video signal or component video signal, the range of this adjustment depends on OVER SCAN in IMAGE menu (📖*28*) setting. It is not possible to adjust when OVER SCAN is set to 10.
   ● If **POSITION** button is pressed when a menu is indicated on screen, the displayed picture does not move its position but the menu does.
   ● This function can not be performed on a MIU signal.

Correcting the keystone distortions

KEYSTONE button

1. Press the **KEYSTONE** button on the remote control. A dialog will appear on the screen to aid you in correcting the distortion.

2. Use the ▲/▼ cursor buttons to select the AUTO or MANUAL operation, and press the ► button to perform the following.

   (1) The AUTO executes automatic vertical keystone correction.

   (2) The MANUAL displays a dialog for keystone correction.
   Use the ▲/▼ buttons for adjustment.
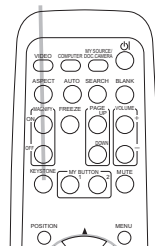
   To close the dialog and complete this operation, press the **KEYSTONE** button again. Even if you do not do anything, the dialog will automatically disappear after a few seconds.

- The adjustable range of this correction will vary among inputs. For some input, this function may not work well.
- When V:INVERT or H&V:INVERT is selected to the MIRROR item in the SETUP menu, if the projector screen is inclined or angled downward, this function may not work correctly.
- When the zoom adjustment is set to the TELE (telephoto focus), the automatic keystone distortion correction may be excessive. This function should be used when the zoom adjustment is set to the full WIDE (wide-angle focus) whenever possible.
- When the projector is placed on the level (about ±3°), the automatic keystone distortion correction may not work.
- When the projector is inclined to near ±30 degree or over, this function may not work well.
- This function will be unavailable when Transition Detector is on (*48*).

Using the magnify feature

MAGNIFY ON/OFF button

1. Press the **ON** button of **MAGNIFY** on the remote control.
   The "MAGNIFY" indication will appear on the screen (although the indication will disappear in several seconds with no operation), and the projector will go into the MAGNIFY mode.

2. Use the ▲/▼ cursor buttons to adjust the zoom level.
   To move the zoom area, press the **POSITION** button in the MAGNIFY mode, then use the ▲/▼/◄/► cursor buttons to move the area. And to finalize the zoom area, press the **POSITION** button again.
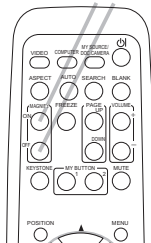
   To exit from the MAGNIFY mode and restore the screen to normal, press the **OFF** button of **MAGNIFY** on the remote control.

- The projector automatically exits from the MAGNIFY mode when the input signal is changed, or when the display condition is changed.
- Although in the MAGNIFY mode, the keystone distortion condition may vary, it will be restored when the projector exits from the MAGNIFY mode.

NOTE • The zoom level can be finely adjusted. Closely watch the screen to find the level you want.

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Freezing the screen

FREEZE button

1. Press the **FREEZE** button on the remote control.
The "FREEZE" indication will appear on the screen (however,
the indication will not appear when the TURN OFF is
selected for the MESSAGE item in the SCREEN menu
(&*38*)), and the projector will go into the FREEZE mode,
which the picture is frozen.
To exit the FREEZE mode and restore the screen to normal,
press the **FREEZE** button again.
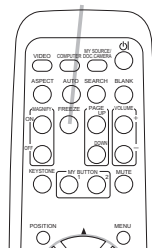
● The projector automatically exits from the FREEZE mode when some control
buttons are pressed.
● If the projector continues projecting a still image for a long time, the LCD
panel might possibly be burned in. Do not leave the projector in the FREEZE
mode for too long.

Temporarily blanking the screen

BLANK button

1. Press **BLANK** button on the remote control.
The BLANK screen will be displayed instead of the screen
of input signal. Please refer to BLANK item in SCREEN
menu (&*36*).
To exit from the BLANK screen and return to the input signal
screen, press **BLANK** button again.

● The projector automatically exits from the BLANK mode when
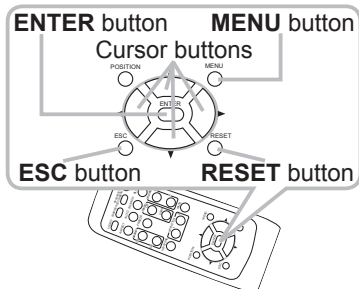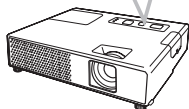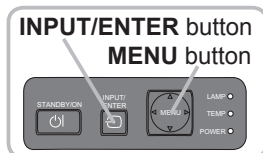some control buttons are pressed.
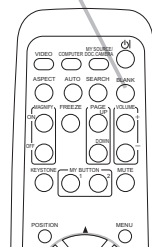
NOTE • The sound is not connected with the BLANK screen function. If
necessary, set the volume or mute first. To display the BLANK screen and mute
the sound at one time, use AV MUTE function (&*42*).

Using the menu function

This projector has the following menus: PICTURE, IMAGE, INPUT, SETUP, AUDIO, SCREEN, OPTION, MIU, C.C. and EASY MENU. EASY MENU consists of functions often used, and the other menus are classified into each purpose. Each of these menus is operated using the same methods. The basic operations of these menus are as follows.

1. Press the **MENU** button on the remote control or the projector. The Advanced MENU, or EASY MENU that has priority just after powered on, will appear. While the projector is displaying any menu, the **INPUT/ENTER** button
on the projector works as the **ENTER** button and
the **MENU** button on the projector works as the cursor buttons.
If you want to move the menu position, use the cursor buttons after pressing the **POSITION** button. While the projector is displaying any menu, the **MENU** button on the projector works as the cursor buttons.

In the EASY MENU (&23)

2. If you want to change it to the Advanced Menu, select the "Go to Advanced Menu..."

3. Use the ▲/▼ cursor buttons to select an item to operate.

4. Use the ◄/► cursor buttons to operate the item.

In the Advanced Menu (&25)

2. Use the ▲/▼ cursor buttons to select a menu. If you want to change it to the EASY MENU, select the EASY MENU. Then press the ► cursor button, or the **ENTER** button to select an item. The lower layer menu of the selected item will appear.

3. Use the ▲/▼ cursor buttons to select an item to operate. Then press the ► cursor button, or the **ENTER** button to progress. The operation menu of the selected item will appear.

4. Use the ▲/▼ cursor buttons to operate the item. Some functions cannot be performed when a certain input port is selected, or when a certain input signal is displayed. When you want to reset the operation, press the **RESET** button on the remote control during the operation. Note that some items (ex. LANGUAGE, H PHASE, VOLUME) cannot be reset. In the Advanced Menu, when you want to return to the previous display, press the ◄ cursor button, or the **ESC** button on the remote control.

5. Press the **MENU** button on the remote control again to close the menu and complete this operation. Even if you do not do anything, the dialog will automatically disappear after about 10 seconds.

EASY MENU

From the EASY MENU, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons. Then perform it according to the following table.

```
EASY MENU [COMPUTER]
ASPECT          ◄    NORMAL      ►
AUTO KEYSTONE ⟋\ EXECUTE
KEYSTONE ⟋\                    +0
PICTURE MODE        NORMAL
BRIGHTNESS                    +0
CONTRAST                      +0
COLOR                         +0
TINT                          +0
SHARPNESS                     4
WHISPER             NORMAL
MIRROR              NORMAL
RESET
FILTER TIME         0h
LANGUAGE       ●    ENGLISH
                Go to Advanced Menu...
```

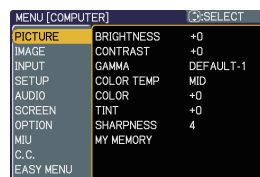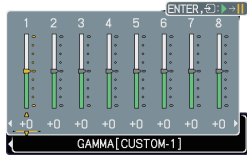| Item	Description
ASPECT	Using the ◄/► buttons switches the mode for aspect ratio. See the ASPECT item in IMAGE menu (📖*28*).
AUTO KEYSTONE ⟋\ EXECUTE	Using the ► button executes the auto keystone function. See AUTO KEYSTONE ⟋\ EXECUTE item in SETUP menu (📖*33*).
KEYSTONE ⟋	Using the ◄/► buttons corrects the vertical keystone distortion. See KEYSTONE ⟋\ item in SETUP menu (📖*33*).
PICTURE MODE	Using the ◄/► buttons switches the picture mode. The picture modes are combinations of GAMMA and COLOR TEMP settings. Choose a suitable mode according to the projected source. NORMAL ⇔ CINEMA ⇔ DYNAMIC ⇔ BOARD(BLACK) DAYTIME ⇔ WHITEBOARD ⇔ BOARD(GREEN) COLOR TEMP — GAMMA NORMAL — #2 MID — #1 DEFAULT CINEMA — #3 LOW — #2 DEFAULT DYNAMIC — #1 HIGH — #3 DEFAULT BOARD(BLACK) — #4 Hi-BRIGHT-1 — #4 DEFAULT BOARD(GREEN) — #5 Hi-BRIGHT-2 — #4 DEFAULT WHITEBOARD — #2 MID — #5 DEFAULT DAYTIME — #6 Hi-BRIGHT-3 — #6 DEFAULT • When the combination of GAMMA and COLOR TEMP differs from pre-assigned modes above, the display on the menu for the PICTURE MODE is "CUSTOM". Please refer to GAMMA (📖*25*) and COLOR TEMP (📖*26*) items in PICTURE menu. • When this function is performed, a certain extra such as a line may appear.

(continued on next page)

EASY MENU (continued)

Item	Description
BRIGHTNESS	Using the ◄/► buttons adjusts the brightness. See BRIGHTNESS item in PICTURE menu (📖*25*).
CONTRAST	Using the ◄/► buttons adjusts the contrast. See CONTRAST item in PICTURE menu (📖*25*).
COLOR	Using the ◄/► buttons adjusts the strength of whole color. See COLOR item in PICTURE menu (📖*26*).
TINT	Using the ◄/► buttons adjusts the tint. See TINT item in PICTURE menu (📖*26*).
SHARPNESS	Using the ◄/► buttons adjusts the sharpness. See SHARPNESS item in PICTURE menu (📖*27*).
WHISPER	Using the ◄/► buttons turns off/on the whisper mode. See WHISPER item in SETUP menu (📖*33*).
MIRROR	Using the ◄/► buttons switches the mode for mirror status. See MIRROR item in SETUP menu (📖*34*).
RESET	Performing this item resets all of EASY MENU items except FILTER TIME and LANGUAGE. A dialog is displayed for confirmation. Selecting RESET using the ▲ button performs resetting.
FILTER TIME	The usage time of the air filter is shown in the menu. Performing this item resets the filter time which counts usage time of the air filter. A dialog is displayed for confirmation. Selecting RESET using the ▲ button performs resetting. See FILTER TIME item in OPTION menu (📖*41*).
LANGUAGE	Using the ◄/► buttons changes the display language. See LANGUAGE item in SCREEN menu (📖*36*).
Go to Advanced Menu...	Select Go to Advanced Menu… on the menu, and press the ► or **ENTER** button to use the menu of PICTURE, IMAGE, INPUT, SETUP, AUDIO, SCREEN, OPTION or C.C..

PICTURE menu

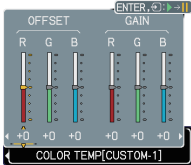From the PICTURE menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or **ENTER** button to execute the item. Then perform it according to the following table.

Item	Description
BRIGHTNESS	Using the ▲/▼ buttons adjusts the brightness. 　Light ⇔ Dark
CONTRAST	Using the ▲/▼ buttons adjusts the contrast. 　Strong ⇔ Weak
GAMMA	Using the ▲/▼ buttons switches the gamma mode. #1 DEFAULT ⇔ #1 CUSTOM ⇔ #2 DEFAULT ⇔ #2 CUSTOM ⇕　　　　　　　　　　　　　　　　　　　#3 DEFAULT #6 CUSTOM　　　　　　　　　　　　　　　⇕ ⇕　　　　　　　　　　　　　　　　　　　#3 DEFAULT #6 DEFAULT　　　　　　　　　　　　　　　⇕ ⇕　　　　　　　　　　　　　　　　　　　#3 CUSTOM #5 CUSTOM ⇔ #5 DEFAULT ⇔ #4 CUSTOM ⇔ #4 DEFAULT **To adjust CUSTOM** Selecting a mode whose name includes CUSTOM and then pressing the ► button or the **ENTER** button displays a dialog to aid you in adjusting the mode. This function is useful when you want to change the brightness of particular tones. Choose an item using the ◄/► buttons, and adjust the level using the ▲/▼ buttons. You can display a test pattern for checking the effect of your adjustment by pressing the **ENTER** button. Each time you press the **ENTER** button, the pattern changes as below. 　No pattern ⇨ Gray scale of 9 steps 　Ramp ⇦ Gray scale of 15 steps The eight equalizing bars correspond to eight tone levels of the test pattern (Gray scale of 9 steps), except the darkest in the left end. If you want to adjust the 2nd tone from left end on the test pattern, use the equalizing adjustment bar "1". The darkest tone at the left end of the test pattern cannot be controlled with any of equalizing adjustment bar. • When this function is performed, lines or other distortion may appear.

(continued on next page)

PICTURE menu (continued)

Item	Description
COLOR TEMP	Using the ▲/▼ buttons switches the color temperature mode. #1 HIGH ⇔ #1 CUSTOM ⇔ #2 MID ⇔ #2 CUSTOM ⇕ ⇕ #6 CUSTOM #3 LOW ⇕ ⇕ #6 Hi-BRIGHT-3 #3 CUSTOM ⇕ ⇕ #5 CUSTOM ⇔ #5 Hi-BRIGHT-2 ⇔ #4 CUSTOM ⇔ #4 Hi-BRIGHT-1 **To adjust CUSTOM** Selecting a mode whose name includes CUSTOM and then pressing the ► button or the **ENTER** button displays a dialog to aid you in adjusting the OFFSET and GAIN of the selected mode. OFFSET adjustments change the color intensity on the whole tones of the test pattern. GAIN adjustments mainly affect color intensity on the brighter tones of the test pattern. Choose an item using the ◄/► buttons, and adjust the level using the ▲/▼ buttons. You can display a test pattern for checking the effect of your adjustment by pressing the **ENTER** button. Each time you press the **ENTER** button, the pattern changes as below. No pattern ⇨ Gray scale of 9 steps Ramp ⇔ Gray scale of 15 steps • When this function is performed, lines or other distortion may appear.
COLOR	Using the ▲/▼ buttons adjusts the strength of whole color. Strong ⇔ Weak • This item can be selected only for a video, s-video and component video signal.
TINT	Using the ▲/▼ buttons adjusts the tint. Greenish ⇔ Reddish • This item can be selected only for a video, s-video and component video signal.

(continued on next page)

PICTURE menu (continued)

Item	Description
SHARPNESS	Using the ▲/▼ buttons adjusts the sharpness. Strong ⇔ Weak • There may be some noise and/or the screen may flicker for a moment when an adjustment is made. This is not a malfunction.
MY MEMORY	This projector has 4 memories for adjustment data (for all the items of PICTURE menu). Selecting a function using the ▲/▼ buttons and pressing the ► or **ENTER** button performs each function. LOAD-1 ⇔ LOAD-2 ⇔ LOAD-3 ⇔ LOAD-4 SAVE-4 ⇔SAVE-3 ⇔ SAVE-2 ⇔ SAVE-1 **LOAD-1, LOAD-2, LOAD-3, LOAD-4** Performing a LOAD function loads the data from the memory linked in the number included in the function's name, and adjusts the picture automatically depending on the data. • The LOAD functions whose linked memory has no data are skipped. • Remember that the current adjusted condition will be lost by loading data. If you want to keep the current adjustment, please save it before performing a LOAD function. • There may be some noise and the screen may flicker for a moment when loading data. This is not malfunction. • You can perform the LOAD function using **MY BUTTON**s. Please see MY BUTTON item in OPTION menu (📖*42*). **SAVE-1, SAVE-2, SAVE-3, SAVE-4** Performing a SAVE function saves the current adjustment data into the memory linked in the number included in the function's name. • Remember that the current data being stored of a memory will be lost by saving a new data into the memory.

IMAGE menu

From the IMAGE menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or **ENTER** button to execute the item. Then perform it according to the following table.

MENU [COMPUTER]		⊕:SELECT
PICTURE	ASPECT	NORMAL
IMAGE	OVER SCAN	5
INPUT	V POSITION	35
SETUP	H POSITION	293
AUDIO	H PHASE	50
SCREEN	H SIZE	1344
OPTION	AUTO ADJUST EXECUTE	
MIU		
C.C.		
EASY MENU		

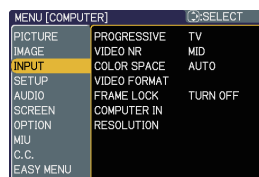| Item	Description

ASPECT	Using the ▲/▼ buttons switches the mode for aspect ratio.
	For a computer or MIU signal
	  NORMAL ⇔ 4:3 ⇔ 16:9 ⇔ SAMLL
	    ⇧━━━━━━━━━━━━━━━━━━━━⇧
	For a video signal, s-video signal or component video signal
	  4:3 ⇔ 16:9 ⇔ 14:9⇔ SAMLL
	    ⇧━━━━━━━━━━━━━━━━━⇧
	For no signal
	  4:3 (fixed)
	• This item can be selected only for a proper signal.
	• The NORMAL mode keeps the original aspect ratio of the signal.

OVER SCAN	Using the ▲/▼ buttons adjusts the over-scan ratio. Large (It reduces picture) ⇔ Small (It magnifies picture) • This item can be selected only for a video, s-video and component video signal. • When this adjustment is too large, certain degradation may appear at the frame area of the picture. In such a case, please adjust small.
V POSITION	Using the ▲/▼ buttons adjusts the vertical position. Up ⇔ Down • Over-adjusting the vertical position may cause noise to appear on the screen. If this occurs, please reset the vertical position to the default setting. Pressing **RESET** button when V POSITION is selected will reset V POSITION to the default setting. • When this function is performed on a video signal, s-video signal, or component video signal, the range of this adjustment depends on OVER SCAN (▢*above*) setting. It is not possible to adjust when OVER SCAN is set to 10. • This item cannot be selected for an MIU signal.

(continued on next page)

IMAGE menu (continued)

Item	Description
H POSITION	Using the ▲/▼ buttons adjusts the horizontal position. Left ⇔ Right • Over-adjusting the horizontal position may cause noise to appear on the screen. If this occurs, please reset the horizontal position to the default setting. Pressing **RESET** button when H POSITION is selected will reset H POSITION to the default setting. • When this function is performed on a video signal, s-video signal, or component video signal, the range of this adjustment depends on OVER SCAN (📖*28*) setting. It is not possible to adjust when OVER SCAN is set to 10. • This item cannot be selected for an MIU signal.
H PHASE	Using the ▲/▼ buttons adjusts the horizontal phase to eliminate flicker. Right ⇔ Left • This item can be selected only for a computer signal or component video signal.
H SIZE	Using the ▲/▼ buttons adjusts the horizontal size. Large ⇔ Small • This item can be selected only for a computer signal. • When this adjustment is excessive, the picture may not be displayed correctly. In such a case, please reset the adjustment by pressing the **RESET** button during this operation.
AUTO ADJUST EXECUTE	Executing this item performs the automatic adjustment feature. **For a computer signal** The vertical position, the horizontal position and the horizontal phase (📖*43*) will be automatically adjusted. Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright picture when adjusting. **For a video signal and s-video signal** The video format best suited for the respective input signal will be selected automatically. This function is available only when the AUTO is selected for the VIDEO FORMAT item in the INPUT menu (📖*31*). The vertical position and horizontal position will be automatically set to the default. **For a component video signal** The vertical position, horizontal position and horizontal phase will be automatically set to the default. • The automatic adjustment operation requires approx. 10 seconds. Also please note that it may not function correctly with some input. When this function is performed for a video signal, a certain extra such as a line may appear outside a picture. • The items adjusted by this function may vary when the FINE or DISABLE is selected for the AUTO ADJUST item of the SERVICE item in the OPTION menu (📖*43*).

INPUT menu

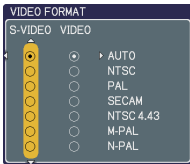From the INPUT menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or **ENTER** button to execute the item. Then perform it according to the following table.

MENU [COMPUTER]		⟳:SELECT
PICTURE	PROGRESSIVE	TV
IMAGE	VIDEO NR	MID
INPUT	COLOR SPACE	AUTO
SETUP	VIDEO FORMAT	
AUDIO	FRAME LOCK	TURN OFF
SCREEN	COMPUTER IN	
OPTION	RESOLUTION	
MIU		
C.C.		
EASY MENU		

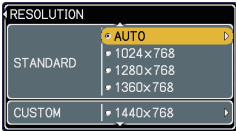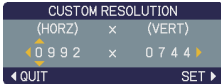| Item	Description
PROGRESSIVE	Using the ▲/▼ buttons switches the progress mode. TV ⇔ FILM ⇔ TURN OFF • This function is performed only for an interlaced signal at the **VIDEO** or **S-VIDEO** input, and for 480i@60 or 576i@50 signal at the **COMPONENT** input. • When TV or FILM is selected, the screen image will be sharp. FILM adapts to the 2-3 Pull-Down conversion system. But these may cause a certain defect (for example, jagged line) of the picture for a quick moving object. In such a case, please select TURN OFF, even though the screen image may lose the sharpness.
VIDEO NR	Using the ▲/▼ buttons switches the noise reduction mode. HIGH ⇔ MID ⇔ LOW • This function is performed only for the **VIDEO** or **S-VIDEO** input, and for 480i@60 or 576i@50 signal at the **COMPONENT** input. • When this function is excessive, it may cause a certain degradation of the picture.
COLOR SPACE	Using the ▲/▼ buttons switches the mode for color space. AUTO ⇔ RGB ⇔ SMPTE240 ⇔ REC709 ⇔ REC601 • This item can be selected only for a computer signal, component video or MIU signal. • The AUTO mode automatically selects the optimum mode. • The AUTO operation may not work well at some signals. In such a case, it might be good to select a suitable mode except AUTO.
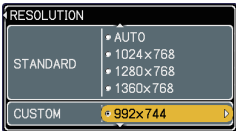
(continued on next page)

INPUT menu (continued)

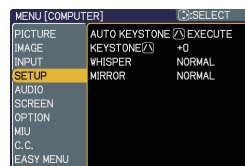| Item	Description
VIDEO FORMAT	The video format for **S-VIDEO** port and **VIDEO** port can be set. (1) Use the ◄/► buttons to select the input port. (2) Using the ▲/▼ buttons switches the mode for video format. AUTO ⇔ NTSC ⇔ PAL ⇔ SECAM ⤷N-PAL ⇔ M-PAL ⇔ NTSC4.43 ⤴ • This item is performed only for a video signal from **VIDEO** port or **S-VIDEO** port. • The AUTO mode automatically selects the optimum mode. • The AUTO operation may not work well for some signals. If the picture becomes unstable (e.g. an irregular picture, lack of color), please select the mode according to the input signal.
FRAME LOCK	Using the ▲/▼ buttons turns the frame lock function on/off. TURN ON ⇔ TURN OFF • This item can be performed only on a computer signal with a vertical frequency of 50 to 60 Hz. • When the TURN ON is selected, a moving pictures are displayed more smoothly. • This function may cause a certain degradation of the picture. In such a case, please select the TURN OFF.
COMPUTER IN	Set the computer input signal type for the ports of COMPUTER. Use the ▲/▼ buttons to select the computer input signal type. AUTO ⇔ SYNC ON G OFF Sync on Green signal can be supported, if AUTO is selected. • When the AUTO is selected, the picture may be distorted with certain input signals. In such a case, remove the signal connector first and select SYNC ON G OFF on the menu, and then reconnect the signal. • Component signal can be supported through COMPUTER IN port, if AUTO is selected for the COMPUTER IN port.

(continued on next page)

INPUT menu (continued)

Item	Description
RESOLUTION	The resolution for the **COMPUTER IN** input signals can be set on this projector. (1) In the INPUT menu, select the RESOLUTION using the ▲/▼ buttons and press the ► button. The RESOLUTION menu will be displayed. (2) In the RESOLUTION menu, select the resolution you wish to display using the ▲/▼ buttons. Selecting AUTO will set a resolution appropriate to the input signal. (3) STANDARD Pressing the ► or **ENTER** button when selecting a STANDARD resolution will automatically adjust the horizontal and vertical positions, clock phase and horizontal size and automatically select an aspect ratio. (3) CUSTOM (3)-1 To set a custom resolution, use the ▲/▼ buttons to select the CUSTOM and the CUSTOM RESOLUTION box will be displayed. Set the horizontal (HORZ) and vertical (VERT) resolutions using the ▲/▼/◄/► buttons. It is not guaranteed to work this function properly on any resolutions. (3)-2 To save the setting place the cursor on the right-most digit and press the ► button. The horizontal and vertical positions, clock phase and horizontal size will be automatically adjusted. (3)-3 To revert back to the previous resolution without saving changes place, the cursor on the left-most digit and press the ◄ button. The screen will then return to the RESOLUTION menu displaying the previous resolution. • For some pictures, this function may not work well.

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SETUP menu

From the SETUP menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or the **ENTER** button to execute the item. Then perform it according to the following table.

Item	Description
AUTO KEYSTONE ⟋\ EXECUTE	Selecting this item performs the automatic keystone distortion correction. Projector automatically corrects vertical keystone distortion due to the (forward/backward) setup angle by itself. This function will be executed only once when selected in the menu. When the slant of the projector is changed, execute this function again. • The adjustable range for correction will vary among inputs. For some input, this function may not work well. • When V:INVERT or H&V:INVERT is selected to the MIRROR item in the SETUP menu, if the projector screen is inclined or angled downward, this function may not work correctly. • When the zoom adjustment is set to the TELE (telephoto focus), this function may be excessive. This function should be used when the zoom adjustment is set to the full WIDE (wide-angle focus) whenever possible. • When the projector is placed on the level (about ±3°), this function may not work. • When the projector is inclined to near ±30 degree or over, this function may not work well. • This function will be unavailable when the Transition Detector is on (*48).
KEYSTONE ⟋	Using the ▲/▼ buttons corrects the vertical keystone distortion. Shrink the top of the image ⇔ Shrink the bottom of the image • The adjustable range of this function will vary with the type of input signal. For some input, this function may not work well. • This function will be unavailable when the Transition Detector is on (*48).
WHISPER	Using the ▲/▼ buttons turns off/on the whisper mode. NORMAL ⇔ WHISPER • When WHISPER is selected, acoustic noise and screen brightness are reduced.

(continued on next page)

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SETUP menu (continued)

| Item	Description
MIRROR	Using the ▲/▼ buttons switches the mode for mirror status. NORMAL ⇔ H:INVERT ⇔ V:INVERT ⇔ H&V:INVERT If the Transition Detector is TURN ON and MIRROR status is changed, Transition Detector Alarm (📖*48*) will be displayed when projector is restarted after the power switch is turned off.

AUDIO menu

From the AUDIO menu, items shown in the table below can be performed. Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or the **ENTER** button to execute the item. Then perform it according to the following table.

Item	Description
VOLUME	Using the ▲/▼ buttons adjusts the volume. High ⇔ Low
AUDIO	Allocates an audio port for an MIU signal. (1) Press the ▼ button to begin to select. (2) Use the ◄/► buttons to select an Audio port for an MIU signal. AUDIO IN ⇔ ✕ ⇔ MIU • This setting is effective only when an MIU signal is selected. • When ✕ is selected to **VIDEO**(NTSC), **S-VIDEO**(NTSC) and **COMPUTER IN**(480i@60), the C.C.(Closed Caption) is automatically activated, if the C.C. is set to AUTO in the DISPLAY menu of the C.C. menu and the signal from the input port supports the C.C. feature (📖*60*).
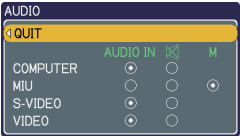
SCREEN menu

From the SCREEN menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or **ENTER** button to execute the item. Then perform it according to the following table.
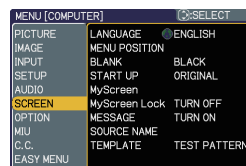
MENU [COMPUTER]		SELECT
PICTURE	LANGUAGE	ENGLISH
IMAGE	MENU POSITION	
INPUT	BLANK	BLACK
SETUP	START UP	ORIGINAL
AUDIO	MyScreen	
SCREEN	MyScreen Lock	TURN OFF
OPTION	MESSAGE	TURN ON
MIU	SOURCE NAME	
C.C.	TEMPLATE	TEST PATTERN
EASY MENU		

Item	Description
LANGUAGE	Using the ▲/▼ buttons switches the OSD (On Screen Display) language. ENGLISH ⇔ FRANÇAIS ⇔ DEUTSCH ⇔ ESPAÑOL ⇔ ITALIANO ⇕ ⇕ TÜRKÇE NORSK ⇕ ⇕ POLSKI NEDERLANDS ⇕ ⇕ SUOMI PORTUGUÊS ⇕ ⇕ РУССКИЙ ⇔ SVENSKA ⇔ 한글 ⇔ 繁體中文 ⇔ 简体中文 ⇔ 日本語
MENU POSITION	Using the ▲/▼/◄/► buttons adjusts the menu position. To quit the operation, press **MENU** button on the remote control or keep no operation for about 10 seconds.
BLANK	Using the ▲/▼ buttons switches the mode for the BLANK screen. The BLANK screen is a screen for the temporarily blanking feature (📖*21*). It is displayed by pressing **BLANK** button. MyScreen ⇔ ORIGINAL ⇔ BLUE ⇔ WHITE ⇔ BLACK |	Feature | | --- | --- | | MyScreen | Screen can be registered by the MyScreen item (📖*37*). | | ORIGINAL | Screen preset as the standard screen. | | BLUE, WHITE, BLACK | Plain screens in each color. | • To avoid remaining as an afterimage, the MyScreen or ORIGINAL screen will change to the plain black screen after several minutes.

SCREEN menu (continued)

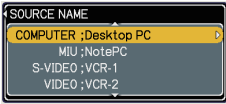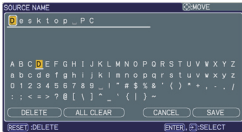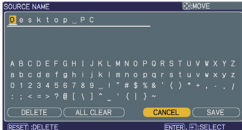| Item	Description
START UP	Using the ▲/▼ buttons switches the mode for the start-up screen. The start-up screen is a screen displayed when no signal or an unsuitable signal is detected. MyScreen ⇔ ORIGINAL ⇔ TURN OFF <table><tr><td></td><td>Feature</td></tr><tr><td>MyScreen</td><td>Screen can be registered by the MyScreen item (📖*below*).</td></tr><tr><td>ORIGINAL</td><td>Screen preset as the standard screen.</td></tr><tr><td>TURN OFF</td><td>Plain black screen.</td></tr></table> • To avoid remaining as an afterimage, the MyScreen or ORIGINAL screen will change to the BLANK screen (📖*36*) after several minutes. If also the BLANK screen is the MyScreen or ORIGINAL, the plain black screen is instead used. • When the TURN ON is selected to the MyScreen PASSWORD of SECURITY item in OPTION menu (📖*46*), the START UP is fixed to MyScreen.
MyScreen	This item allows you to capture an image for use as a MyScreen image which can be used as the BLANK screen and START UP screen. Display the image you want to capture before executing the following procedure. 1. Selecting this item displays a dialog titled "MyScreen". It will ask you if you start capturing an image from the current screen. Please wait for the target image to be displayed, and press the **ENTER** button when the image is displayed. The image will freeze and the frame for capturing will appear. To stop performing, press the **RESET** or **ESC** button. 2. Using the ▲/▼/◄/► buttons adjusts the frame position. Please move the frame to the position of the image which you want to use. The frame may not be able to be moved for some input signals. To start registration, press the **ENTER** button. To restore the screen and return to the previous dialog, press the **RESET** or **ESC** button. Registration takes several minutes. (continued on next page)

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SCREEN menu (continued)

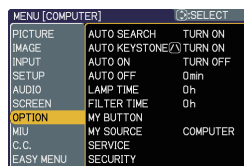| Item	Description
MyScreen (continued)	When the registration is completed, the registered screen and the following message are displayed for several seconds: **"MyScreen registration is finished."** If the registration failed, the following message is displayed: **"A capturing error has occurred. Please try again."** • This function cannot be selected when the TURN ON is selected to the MyScreen Lock item (📖*below*). • This function cannot be selected when TURN ON is selected to the MyScreen PASSWORD of SECURITY item in OPTION menu (📖*46*).
MyScreen Lock	Using the ▲/▼ buttons turns on/off the MyScreen lock function. TURN ON ⇔ TURN OFF When the TURN ON is selected, the MyScreen item is locked. Use this function for protecting the current MyScreen. • This function cannot be selected when TURN ON is selected to the MyScreen PASSWORD of SECURITY item in OPTION menu (📖*46*).
MESSAGE	Using the ▲/▼ buttons turns on/off the message function. TURN ON ⇔ TURN OFF When the TURN ON is selected, the following message function works. "AUTO IN PROGRESS" while automatically adjusting "NO INPUT IS DETECTED" "SYNC IS OUT OF RANGE" "INVALID SCAN FREQ." "Searching…" while searching for the input "Detecting…" while an input signal is detected The indication of the input signal displayed by changing The indication of the aspect ratio displayed by changing The indication of the PICTURE MODE displayed by changing The indication of the MY MEMORY displayed by changing The indication of "FREEZE" and "II" while the projector is in the FREEZE mode. • If the projector goes into the FREEZE mode while the TURN OFF is selected, the picture on screen is frozen without any messages, which is not a malfunction (📖*21*).

(continued on next page)

SCREEN menu (continued)

Item	Description
SOURCE NAME	Each input port for this projector can have a name applied to it. (1) Use the ▲/▼ buttons on the SCREEN menu to select SOURCE NAME and press the ► button. The SOURCE NAME menu will be displayed. (2) Use the ▲/▼ buttons on the SOURCE NAME menu to select the port to be named and press the ► button. Right side of the menu is blank until a name is specified. The SOURCE NAME dialog will be displayed. (3) The current name will be displayed on the first line. Use the ▲/▼/◄/► buttons and the **ENTER** or **INPUT/ENTER** button to select and enter characters. The **RESET** button can be used to erase 1 character at a time. Also if you move the cursor to DELETE or ALL CLEAR on screen and push the **ENTER** or **INPUT/ENTER** button, 1 character or all characters will be erased. The name can be a maximum of 16 characters. (4) To change an already inserted character, press the ▲ button to move the cursor to the first line, and use the ◄/► buttons to move the cursor on the character to be changed. After pressing the **ENTER** or **INPUT/ENTER** button, the character is selected. Then, follow the same procedure as described at the item (3) above. (5) To finish entering text, move the cursor to the SAVE on screen and press the **ENTER** or **INPUT/ENTER** button. To revert to the previous name without saving changes, move the cursor to the CANCEL on screen and press the **ENTER** or **INPUT/ENTER** button.
TEMPLATE	Using ▲/▼ buttons switches the mode for the template screen. The selected template pattern can be displayed when the **MY BUTTON** allocated to the TEMPLATE function is pressed (📖*42*). DOT-LINE4 ⇔ DOT-LINE3 ⇔ DOT-LINE2 ⇕ ⇕ TEST PATTERN ⇔ DOT-LINE1

OPTION menu

From the OPTION menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or **ENTER** button to execute the item, except for the items LAMP TIME and FILTER TIME. Then perform it according to the following table.

MENU [COMPUTER]		⟨☼⟩SELECT
PICTURE	AUTO SEARCH	TURN ON
IMAGE	AUTO KEYSTONE◿	TURN ON
INPUT	AUTO ON	TURN OFF
SETUP	AUTO OFF	0min
AUDIO	LAMP TIME	0h
SCREEN	FILTER TIME	0h
OPTION	MY BUTTON	
MIU	MY SOURCE	COMPUTER
C.C.	SERVICE	
EASY MENU	SECURITY	

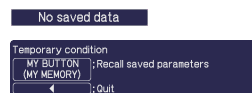| Item	Description
AUTO SEARCH	Using the ▲/▼ buttons turns on/off the automatic signal search function. TURN ON ⇔ TURN OFF When the TURN ON is selected, detecting no signal automatically cycles through input ports in the following order. The search is started from the current port. Then when an input is found, the projector will stop searching and display the image. ⟹ COMPUTER IN ⇨ MIU └─ VIDEO ⇦ S-VIDEO ⇦────
AUTO KEYSTONE ◿	Using the ▲/▼ buttons turns on/off the automatic keystone function. TURN ON ⇔ TURN OFF TURN ON : Automatic keystone distortion correction will be executed whenever changing the slant of the projector. TURN OFF : This function is disabled. Please execute the AUTO KEYSTONE ◿ EXECUTE in the SETUP Menu for automatic keystone distortion correction. • When the projector is suspended from the ceiling this feature will not function properly so select the TURN OFF. • This function will be unavailable when the Transition Detector is on (📖*48*).
AUTO ON	Using the ▲/▼ buttons turns on/off the AUTO ON function. TURN ON ⇔ TURN OFF When set to the TURN ON, the lamp in projector will be automatically turned on without the usual procedure (📖*14*), only when the projector is supplied with the power after the power was cut while the lamp was on. • This function does not work as long as the power has been supplied to the projector while the lamp is off. • After turning the lamp on by the AUTO ON function, if neither input nor operation is detected for about 30 minutes, the projector is turned off, even though the AUTO OFF function (📖*41*) is disabled.

(continued on next page)

OPTION menu (continued)

Item	Description
AUTO OFF	Using the ▲/▼ buttons adjusts the time to count down to automatically turn the projector off. Long (max. 99 minutes) ⇔ Short (min. 0 minute = DISABLE) AUTO OFF — ENABLE — 1min AUTO OFF — DISABLE — 0min When the time is set to 0, the projector is not turned off automatically. When the time is set to 1 to 99, and when the passed time with no-signal or an unsuitable signal reaches at the set time, the projector lamp will be turned off. If one of the projector's buttons or the remote control buttons is pressed or one of the commands (except get commands) is transmitted to the **CONTROL** port during the corresponding time, projector will not be turned off. Please refer to the section "Turning off the power" (📖*14*).
LAMP TIME	The lamp time is the usage time of the lamp, counted after the last resetting. It is shown in the OPTION menu. Pressing **RESET** button or the ► button displays a dialog. To reset the lamp time, select RESET using the ▲ button. RESET ⇔ CANCEL • Please reset the lamp time only when you have replaced the lamp, for a suitable indication about the lamp. • For the lamp replacement, see the section "Lamp" (📖*61*).
FILTER TIME	The filter time is the usage time of the air filter, counted after the last resetting. It is shown in the OPTION menu. Pressing the **RESET** button or the ► button displays a dialog. To reset the filter time, select the RESET using the ▲ button. RESET ⇔ CANCEL • Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter. • For the air filter cleaning, see the section "Air filter" (📖*63*).

OPTION menu (continued)

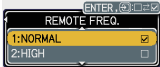| Item	Description
MY BUTTON	This item is to assign one of the following function to **MY BUTTON 1** and **2** on the remote control (📖*5*). Choose 1 or 2 on the MY BUTTON menu using the ◄/► button first. Then using the ▲/▼ buttons sets one of the following functions to the chosen button. • COMPUTER: Sets port to **COMPUTER IN**. • MIU: Sets port to MIU. • S-VIDEO: Sets port to **S-VIDEO**. • VIDEO: Sets port to **VIDEO**. • INFORMATION: Displays the INPUT -INFORMATION- (📖*44*) or MIU -INFORMATION- (📖*59*) or nothing. • AUTO KEYSTONE ⬜ : Performs automatic keystone distortion correction (📖*33*). • MY MEMORY: Loads one of adjustment data stored (📖*29*). When more than one data are saved, the adjustment changes every time the **MY BUTTON** is pushed. When no data is saved in memory, the dialog "No saved data" appears. When the current adjustment is not saved to memory, the dialog as shown in the right appears. If you want to keep the current adjustment, please press the ◄ button to quit. Otherwise loading a data will overwrite the current adjusted condition. • PICTURE MODE: Changes the PICTURE MODE (📖*23*). • FILTER RESET: Displays the filter time reset confirmation dialogue (📖*41*). • AV MUTE : Turns the picture and audio on/off. • TEMPLATE: Makes the template pattern selected to the TEMPLATE item (📖*39*) appear or disappear. • MY IMAGE: Displays the MY IMAGE menu (📖*58*). • LIVE MODE : Sets port to MIU and display an image on the LIVE mode. While using the LIVE mode, the LIVE MODE SETTING menu is displayed. • THUMBNAIL : Sets port to MIU and displays the THUMBNAIL screen. • SLIDE SHOW : Sets port to MIU and starts the SLIDE SHOW display. • DIRECTORY : Sets port to MIU and displays the DIRECTORY screen. • REMOVE MEDIA : Displays the REMOVE MEDIA menu.
MY SOURCE	This item is to assign an input signals to **MY SOURCE / DOC. CAMERA** button on the remote control (📖*5, 16*). Using the ▲/▼ buttons sets one of the following input signal. ⇒ COMPUTER ⇔ MIU VIDEO ⇔ S-VIDEO ⇐
SERVICE	Selecting this item displays the SERVICE menu. Select an item using the ▲/▼ buttons, and press the ► button or the **ENTER** button on the remote control to execute the item. ⇒ FANSPEED ⇔ AUTO ADJUST ⇔ GHOST ⇔ FILTER MESSAGE ⇐ FACTORY RESET ⇔ INFORMATION ⇔ REMOTE FREQ. ⇔ KEY LOCK

(continued on next page)

OPTION menu (continued)

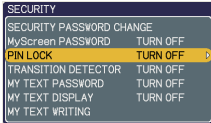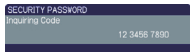| Item	Description
SERVICE (continued)	**FANSPEED** Using the ▲/▼ buttons switches the rotation speed of the cooling fans. The HIGH is the mode for use at highlands etc. Note that the projector is noisier when the HIGH is selected. HIGH ⇔ NORMAL **AUTO ADJUST** Using the ▲/▼ buttons to select one of the mode. When the DISABLE is selected, the automatic adjustment feature is disabled. FINE ⇔ FAST ⇔ DISABLE FINE: Finer tuning including H.SIZE adjustment. FAST: Faster tuning, setting H.SIZE to prearranged data for the input signal. • Depending on conditions, such as input image, signal cable to the projector, environment around the projector, etc., the automatic adjustment may not work correctly. In such a case, please choose DISABLE to disable the automatic adjustment, and make adjustment manually. **GHOST** 1. Select a color element of ghost using the ◄/► buttons. 2. Adjust the selected element using the ▲/▼ buttons to disappear ghost. **FILTER MESSAGE** Use the ▲/▼ button to set the timer for the interval to show the message for cleaning up the air filter. 50h ⇔ 100h ⇔ 200h ⇔ 300h ⇔ TURN OFF After choosing an item except TURN OFF, the message "REMINDER *** HRS PASSED AFTER THE LAST FILTER CHECK" will appear after the timer reaches the interval time set by this feature (📖*66*). When the TURN OFF is chosen, the message will not appear. Utilize this feature to keep the air filter clean, setting the suitable time according to your environment of this projector. • Please check and clean the air filter periodically, even if there is no message. If the air filter becomes to be blocked by dust or others, the internal temperature will rise, which could cause malfunction, or reduce the lifetime of the projector. • It is recommended to choose "100h" in general. Please be careful with the operating environment of the projector and the condition of the air filter, especially when the "200h", "300h" or "TURN OFF" is chosen.

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OPTION menu (continued)

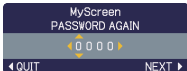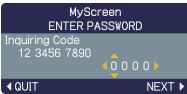| Item	Description
SERVICE (continued)	**KEY LOCK** Using the ▲/▼ buttons turns on/off the key lock feature. When TURN ON is selected, the buttons on the projector except the **STANDBY/ON** button are locked. TURN ON ⇔ TURN OFF • Please use to avoid a mischief and touching accidentally. This function does not have any effect on the remote control. **REMOTE FREQ.** Use the ▲/▼ button to change the Projector's remote sensor setting (**📖**13). 1:NORMAL ⇔ 2:HIGH Items with a checkmark are on. The factory default setting is for both 1:NORMAL and 2:HIGH to be on. If the remote control does not function correctly, set this to either only 1 or only 2 as described in Remote Control Settings (**📖**13). Neither can be turned off at the same time. **INFORMATION** Selecting this item displays a dialog titled "INPUT-INFORMATION-". It shows the information about the current input. • The "FRAME LOCK" message on the dialog means the frame lock function is working. • This item can't be selected for no signal and sync out. • When the MY TEXT DISPLAY is set to TURN ON, the MY TEXT is displayed together with the input information in the INPUT-INFORMATION- box (**📖**49). **FACTORY RESET** Selecting RESET using the button ▲ performs this function. By this function, all the items in all of menus will collectively return to the initial setting. Note that the items LAMP TIME, FILTER TIME, LANGUAGE, SECURITY and MIU settings are not reset. RESET ⇔ CANCEL

OPTION menu (continued)

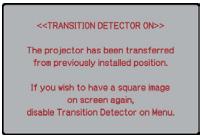| Item	Description
SECURITY	This projector is equipped with security functions. User registration is required before using the security functions. Please contact your local dealer. **1. Using Security Features** **1.1 Inputting the PASSWORD** 1.1-1 Use the ▲/▼ buttons on the OPTION menu to select SECURITY and press the ► button. The ENTER PASSWORD box will be displayed. The factory default PASSWORD is **2805**. This PASSWORD can be changed (1.2 Changing the PASSWORD). • It is strongly recommended the factory default PASSWORD to be changed as soon as possible. 1.1-2 Use the ▲/▼/◄/► buttons to enter the registered PASSWORD. Move the cursor to the right side of the ENTER PASSWORD BOX and press the ► button to display the SECURITY menu. • If an incorrect PASSWORD is input, the ENTER PASSWORD BOX will be displayed again. If incorrect PASSWORD is input 3 times, the projector will turn off. Afterwards the projector will turn off every time an incorrect PASSWORD is input. **1.2 Changing the PASSWORD** 1.2-1 Use the ▲/▼ buttons on the SECURITY menu to select SECURITY PASSWORD CHANGE and press the ► button to display the ENTER NEW PASSWORD BOX. 1.2-2 Use the ▲/▼/◄/► buttons to enter the new PASSWORD. 1.2-3 Move the cursor to the right side of the ENTER NEW PASSWORD BOX and press the ► button to display the NEW PASSWORD AGAIN BOX, enter the same PASSWORD again. 1.2-4 Move the cursor to the right side of the NEW PASSWORD AGAIN BOX and press the ► button and the NOTE NEW PASSWORD BOX will be displayed for about 20 seconds, please make note of the PASSWORD during this time. Pressing the **ENTER** button on the remote control or **INPUT/ENTER** button on the projector will close the NOTE NEW PASSWORD BOX. • Please do not forget your PASSWORD. **1.3 If you have forgotten your PASSWORD** 1.3-1 Follow the procedure in 1.1-1 to display the ENTER PASSWORD BOX. 1.3-2 While the ENTER PASSWORD BOX is displayed, press and hold the **RESET** button on the remote control for about 3 seconds or press and hold the **INPUT/ENTER** button for 3 seconds while pressing the ► button on the projector. The 10 digit Inquiring Code will be displayed. • If there is no key input for about 55 seconds while the Inquiring Code is displayed, the menu will close. If necessary, repeat the process from 1.3-1. 1.3-3 Contact your dealer with the 10 digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed.

OPTION menu (continued)

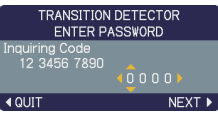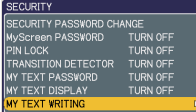| Item	Description
SECURITY (continued)	**2. Using the MyScreen PASSWORD Function** The MyScreen PASSWORD function can be used to prohibit access to the MyScreen function and prevent the currently registered MyScreen image from being overwritten. **2.1 Turning on the MyScreen PASSWORD Function** 2.1-1 Use the ▲/▼ buttons on the SECURITY menu to select MyScreen PASSWORD and press the ► button to display the MyScreen PASSWORD on/off menu. **2.2 Setting the PASSWORD** 2.2-1 Display the MyScreen on/off menu using the procedure in 2.1-1. 2.2-2 Use the ▲/▼ buttons on the MyScreen PASSWORD on/off menu to select TURN ON. The ENTER PASSWORD BOX (small) will be displayed. ENTER PASSWORD BOX (small) 2.2-3 Use the ▲/▼/◄/► buttons to enter the PASSWORD. Move the cursor to the right side of the ENTER PASSWORD BOX (small) and press the ► button to display the PASSWORD AGAIN BOX, enter the same PASSWORD again. 2.2-4 Move the cursor to the right side of the PASSWORD AGAIN BOX and press the ► button to display the PASSWORD for about 20 seconds, please make note of the PASSWORD during this time. Pressing the **ENTER** button on the remote control or **INPUT/ENTER** button on the projector will return to MyScreen PASS WORD on/off menu. When a PASSWORD is set for MyScreen: • The MyScreen registration function (and menu) will be unavailable. • The MyScreen Lock menu will be unavailable. • The START UP setting will be locked on MyScreen (and the menu will be unavailable). Turning the MyScreen PASSWORD off will allow normal operation of these functions. • Please do not forget your MyScreen PASSWORD. **2.3 Turning the PASSWORD off** 2.3-1 Follow the procedure in 2.1-1 to display the MyScreen PASSWORD on/off menu. 2.3-2 Select TURN OFF to display the ENTER PASSWORD BOX (large). Enter the registered PASSWORD and the screen will return to the MyScreen on/off menu. If an incorrect PASSWORD is input, the menu will close. If necessary, repeat the process from 2.3-1. **2.4 If you have forgotten your PASSWORD** 2.4-1 Follow the procedure in 2.1-1 to display the MyScreen PASSWORD on/off menu. 2.4-2 Select TURN OFF to display the ENTER PASSWORD BOX (large). The 10 digit Inquiring Code will be displayed inside the BOX. 2.4-3 Contact your dealer with the 10 digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed. ENTER PASSWORD BOX (large)

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OPTION menu (continued)

Item	Description
SECURITY (continued)	**3. Using the PIN LOCK Function** PIN LOCK is a function which prevents the projector from being used unless a registered Code is input. **3.1 Registering the PIN Code** 3.1-1 Use the ▲/▼ buttons on the SECURITY menu to select PIN LOCK and press the ► button or the **ENTER** button to display the PIN LOCK on/off menu. 3.1-2 Use the ▲/▼ buttons on the PIN LOCK on/off menu to select TURN ON and the PIN BOX will be displayed. 3.1-3 Input a 4 part PIN Code using the ▲/▼/◄/►, **COMPUTER** and **INPUT/ENTER** buttons. The PIN CODE AGAIN BOX will appear. Reenter the same PIN Code. This will complete the PIN Code registration. • If there is no key input for about 55 seconds while the PIN BOX or the PIN CODE AGAIN BOX is displayed, the menu will close. If necessary, repeat the process from 3.1-1. Afterwards, anytime the projector is restarted after the power switch is turned off the PIN BOX will be displayed. Enter the registered PIN Code. The projector can be used after entering the registered PIN Code. If an incorrect PIN Code is input, the PIN BOX will be displayed again. If an incorrect PIN Code is input 3 times, the projector will turn off. Afterwards the projector will turn off every time an incorrect PIN Code is input. The projector will also turn off if there is no key input for about 5 minutes while the PIN BOX is displayed. This function will activate only when the projector is started after the power switch was turned off. • Please do not forget your PIN Code. **3.2 Turning Off the PIN LOCK Function** 3.2-1 Follow the procedure in 3.1-1 to display the PIN LOCK on/off menu. Use the ▲/▼ buttons to select TURN OFF and the PIN BOX will be displayed. Enter the registered PIN Code to turn the PIN LOCK function off. If an incorrect PASSWORD is input 3 times, the menu will close. **3.3 If you have forgotten your PIN Code** 3.3-1 While the PIN BOX is displayed, press and hold the **RESET** button for three seconds or press and hold the **INPUT/ENTER** button for 3 seconds while pressing the ► button on the projector. The 10 digit Inquiring Code will be displayed. • If there is no key input for about 5 minutes while the Inquiring Code is displayed, the projector will turn off. 3.3-2 Contact your dealer with the 10 digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed.

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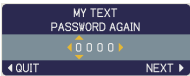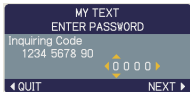
OPTION menu (continued)

Item	Description
SECURITY (continued)	**4. Using the Transition Detector Function** While the Transition Detector function is ON, when power switch is started to supply to the projector, it might react as below. • Transition Detector alarm shown below might appear on screen, if the projector has been moved or re-installed. • Transition Detector alarm might appear on screen, if the MIRROR setting has been changed. • Keystone adjustment feature has been prohibited as long as the Transition Detector function is ON. **4.1 Turning On the Transition Detector Function** 4.1-1 Use the ▲/▼ buttons on the SECURITY menu to select Transition Detector and press the ► or the **ENTER** button to display the Transition Detector on/off menu. Select TURN ON and the current angle and mirror setting will be recorded. • This feature may not function properly if the projector is not in a stable position when TURN ON is selected. 4.1-2 If this function is set to TURN ON when the vertical angle of the projector or mirror setting at which the projector is turned on is different than the previously recorded, the Transition Detector Alarm will be displayed and the projector will not display the input signal. Set the Transition Detector off in the SECURITY menu to display the input signal. If the Transition Detector ALARM is displayed for about 5 minutes, the lamp will turn off. This function will activate only when the projector is started after the power switch was turned off. **4.2 Setting the Transition Detector PASSWORD** 4.2-1 Use the ▲/▼ buttons on the SECURITY menu to select Transition Detector and press the ► or the **ENTER** button to display the Transition Detector on/off menu. 4.2-2 Use the ▲/▼ buttons on the Transition Detector on/off menu to select TURN ON. The ENTER PASSWORD BOX (small) will be displayed. 4.2-3 Use the ▲/▼/◄/► buttons to enter a PASSWORD. Move the cursor to the right side of the ENTER PASSWORD BOX (small) and press the ► button to display the PASSWORD AGAIN BOX, enter the same PASSWORD again. 4.2-4 Move the cursor to the right side of the PASSWORD AGAIN BOX and press the ► button to display the PASSWORD for about 20 seconds, please make note of the PASSWORD during this time. Pressing the **ENTER** button on the remote control or the **INPUT/ENTER** button on the projector will return to the Transition Detector on/off menu. • Please do not forget your Transition Detector PASSWORD. **4.3 Setting the Transition Detector off** 4.3-1 Follow the procedure in 4.1-1 to display the Transition Detector on/off menu. 4.3-2 Select TURN OFF to display the ENTER PASSWORD BOX (large). Enter the registered PASSWORD and the screen will return to the Transition Detector on/off menu. If an incorrect PASSWORD is input, the menu will close. If necessary, repeat the process from 4.3-1.

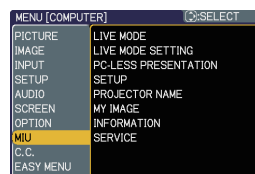## OPTION menu (continued)

Item	Description
SECURITY (continued)	**4.4 If you have forgotten your PASSWORD** 4.4-1 Follow the procedure in 4.1-1 to display the Transition Detector on/off menu. 4.4-2 Select TURN OFF to display the ENTER PASSWORD BOX (large). The 10 digit Inquiring Code will be displayed inside the BOX. 4.4-3 Contact your dealer with the 10 digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed. ENTER PASSWORD BOX (large) **5. Using the MY TEXT PASSWORD function** This item allows you to display your own message (MY TEXT) on the START UP screen and INPUT-INFORMATION-. It can be protected by a password to prevent it from being overwritten. **5.1 Writing the MY TEXT** (1) Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT WRITING menu and press the ► button. The MY TEXT WRITING dialog will be displayed. (2) The current MY TEXT will be displayed on the first 3 lines. If not yet written, the lines will be blank. Use the ▲/▼/◄/► buttons and the **ENTER** or **INPUT/ENTER** button to select and enter characters. The **RESET** button can be used to erase 1 character at a time. Also if you move the cursor to DELETE or ALL CLEAR on screen and push the **ENTER** or **INPUT/ENTER** button, 1 character or all characters will be erased. The MY TEXT can be input up to 24 characters on each line. (3) To change an already inserted character, press the ▲/▼ button to move the cursor to one of the first 3 lines, and use the ◄/► buttons to move the cursor on the character to be changed. After pressing the **ENTER** or **INPUT/ENTER** button, the character is selected. Then, follow the same procedure as described at the item (2) above. (4) To finish entering text, move the cursor to the SAVE on screen and press the **ENTER** or **INPUT/ENTER** button. To revert to the previous MY TEXT without saving changes, move the cursor to the CANCEL on screen and press the **ENTER** or **INPUT/ENTER** button. • The MY TEXT WRITING function is available only when the MY TEXT PASSWORD function is set to TURN OFF. **5.2 Displaying the MY TEXT** (1) Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT DISPLAY menu and press the ► button to display the MY TEXT DISPLAY on/off menu. (2) Use the ▲/▼ buttons on the MY TEXT DISPLAY on/off menu to select on or off. TURN ON ⇔ TURN OFF When it is set TURN ON, the MY TEXT will be displayed on the START UP screen and the INPUT-INFORMATION- when the INFORMATION on the SERVICE menu is chosen. • This function is available only when the MY TEXT PASSWORD function is set to the TURN OFF.

(continued on next page)

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OPTION menu (continued)

Item	Description
SECURITY (continued)	**5.3 Turning on the MY TEXT PASSWORD** The MY TEXT PASSWORD function can prevent the MY TEXT from being overwritten. 5.3-1 Turning on the MY TEXT PASSWORD function (1) Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT PASSWORD menu and press the ► button to display the MY TEXT PASSWORD on/off menu. 5.3-2 Setting the MY TEXT PASSWORD (1) Display the MY TEXT PASSWORD on/off menu using the procedure in 5.3-1 (2) Use the ▲/▼ buttons on the MY TEXT PASSWORD menu to select TURN ON. The ENTER PASSWORD BOX (small) will be displayed. (3) Use the ▲/▼/◄/► buttons to enter the PASSWORD. Move the cursor to the right side of the ENTER PASSWORD BOX (small) and press the ► button to display the PASSWORD AGAIN BOX, and then enter the same PASSWORD again. (4) Move the cursor to the right side of the PASSWORD AGAIN BOX and press ► button to display the PASSWORD for about 20 seconds, then please make note of the PASSWORD during this time. Pressing the **ENTER** button on the remote control or **INPUT/ENTER** button on the projector will return to the MY TEXT PASSWORD on/off menu. When the PASSWORD is set for the MY TEXT; • The MY TEXT DISPLAY menu will be unavailable, which can prohibit changing the DISPLAY setting. • The MY TEXT WRITING menu will be unavailable, which can prevent the MY TEXT from being overwritten. 5.3-3 Turning the MY TEXT PASSWORD off (1) Follow the procedure in 5.3-1 to display the MY TEXT PASSWORD on/off menu. (2) Select TURN OFF to display the ENTER PASSWORD BOX (large). Enter the registered PASSWORD and the screen will return to the MY TEXT PASSWORD on/off menu. If an incorrect PASSWORD is input, the menu will close. If necessary, repeat the process from 5.3-3(1) 5.3-4 If you have forgotten your PASSWORD. (1) Follow the procedure in 5.3-1 to display the MY TEXT PASSWORD on/off menu. (2) Select TURN OFF to display the ENTER PASSWORD BOX (large). The 10 digit inquiring code will be displayed inside the box. (3) Contact your dealer with the 10 digit inquiring code. Your PASSWORD will be sent after your user registration information is confirmed.

ENTER PASSWORD BOX (small)
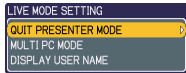
ENTER PASSWORD BOX (large)

MIU menu

The MIU (Multi Information processing Unit) is a function to support the Network features and PC-LESS Presentation. Consult with your network administrator before connecting to an existing access point on your network. Incorrect network settings on this projector may cause trouble on the network. Select "MIU" from the main menu to access the following functions.

```
MENU [COMPUTER]          ⟨⟩:SELECT
PICTURE          LIVE MODE
IMAGE            LIVE MODE SETTING
INPUT            PC-LESS PRESENTATION
SETUP            SETUP
AUDIO            PROJECTOR NAME
SCREEN           MY IMAGE
OPTION           INFORMATION
MIU              SERVICE
C.C.
EASY MENU
```
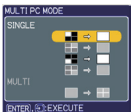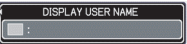
Select an item using the ▲/▼ cursor buttons on the projector or remote control, and press the ► cursor button on the projector or remote control, or **ENTER** button on the remote control to execute the item. Then perform it according to the following table. See the User's Manual - Network Guide for details of MIU operation.

> **NOTE** • The factory default setting for DHCP is TURN OFF. If your network has DHCP enabled, and needs to set IP ADDRESS, SUBNET MASK and DEFAULT GATEWAY automatically, please set DHCP to ON (&*54*).
> • If you are not utilizing SNTP (&*4.1.8 Date/Time Settings of the User's Manual - Network Guide*), then you must set the DATE AND TIME (&*55*) during the initial installation.

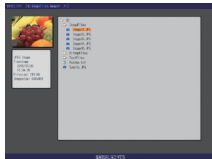| Item	Description
LIVE MODE	Selecting this item sets the projector onto the "Live Mode". On the "Live Mode", the projector displays the images from the PC via Network, supported by "Live Viewer 3" software. (&**1.1 Live Mode of the User's Manual - Network Guide**)
LIVE MODE SETTING	Selecting this item displays the LIVE MODE SETTING menu. Use the ▲/▼ buttons to select an item, and the ► or **ENTER** button to perform the item. LIVE MODE SETTING QUIT PRESENTER MODE MULTI PC MODE DISPLAY USER NAME
	QUIT PRESENTER MODE — The Presenter Mode that is set in the "Live Viewer 3" software installed into your PC can be turned to off. A message, QUIT PRESENTER MODE, will be displayed in about 3 seconds when the function is performed. The function is available only when the Presenter Mode is set to on in the the "Live Viewer 3" software. The current setting of the Presenter Mode is shown in the menu. QUIT PRESENTER MODE PRESENTER MODE; ON EXECUTE CANCEL • The Presenter mode is a function that allows the projector to display an image sent by 1 PC only, even though the MIU feature on this projector support Multi PC mode. • If the projector is required to display an image sent by other PC, execute the QUIT PRESENTER MODE function. • See the &User's Manual – Network Guide for details.

(continued on next page)

MIU menu (continued)

Item	Description
LIVE MODE SETTING (continued)	**MULTI PC MODE** The projector supports the Single PC mode that displays an image on full screen sent by 1 PC, and the Multi PC mode that divides the screen into 4 zone and displays images in each zone sent by up to 4 PCs. The MULTI PC MODE function switches these modes. **SINGLE** Use the ▲/▼ buttons to select an item, and the **ENTER** or **INPUT/ENTER** button to perform the item. The mode will be switched from the Multi PC mode to the Single PC mode and the quarter screen identified in the menu will be displayed on full screen. **MULTI** Use the **ENTER** or **INPUT/ENTER** button to perform the item. The mode will be switched to the Multi PC mode and the screen will be divided to 4 zones. • If the Presenter Mode is set to on in the PC whose image is currently displayed on screen, a message, QUIT PRESENTER MODE, will be displayed in about 3 seconds when the function is performed. • The function is available when there is any PC connected to the projector in the Multi PC mode set in the "Live Viewer 3" software.
	DISPLAY USER NAME Selecting this item displays the Display User Name defined in the "Live Viewer 3" software in the PC whose image is on screen. **SINGLE PC mode** The Display User Name will be shown in the DISPLAY USER NAME box. Examples Display User name Shown in the DISPLAY USER NAME box PC_NAME0001 PC_NAME0001 (remained as default) Unnamed (blank space) (prohibited showing) (Anonymous) If there is no PC in the Single PC mode connected to the projector, the DISPLAY USER NAME box is shown as right. **MULTI PC mode** The Display User Names will be shown in the DISPLAY USER NAME box. • See the 📖 User's Manual – Network Guide for details of the Display User Name setting.
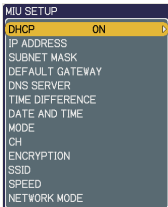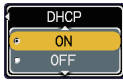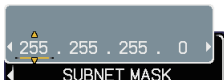
(continued on next page)

MIU menu (continued)

Item	Description
PC-LESS PRESENTATION	Selecting this item displays the PC-LESS PRESENTATION menu. Using the menu is able to make the projector display the images stored in an SD memory card or a USB memory, and realizes a presentation without a PC. Use the ▲/▼/◄/► buttons to select an item, and the ► or **ENTER** button to perform the item. • While displaying the image, to press the **MENU** button displays the PC-LESS PRESENTATION menu.

	Item	Description
	THUMBNAIL	Use the ▲/▼/◄/► buttons to select an image, and press the **ENTER** or **INPUT/ ENTER** button to display the image.
	SLIDE SHOW	Slide show will start when you press the **ENTER** or ► button.
	DIRECTORY	Use the ▲/▼ buttons to select an image or a folder, and press the **ENTER** or **INPUT/ ENTER** button to display the image or turn into the THUMBNAIL. To open or close the folder, press the ►/◄ buttons.
	DISPLAY SIZE	Use the ▲/▼ buttons to set the display size.
	KEY CONFIG.	Use the ▲/▼ buttons to select key configuration from the 2 patterns.
	REMOVE MEDIA	Use the ▲/▼ buttons to select a remove mode, and then the **ENTER** or ► button is pressed so the menu to excuse will appear.
		• Also these items can be set with Web Remote Control (Refer to Network Guide) except DISPLAY SIZE, KEY CONFIG. and REMOVE MEDIA.
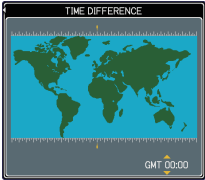
MIU menu (continued)

Item	Description
SETUP	Selecting this item displays the MIU SETUP menu. Use the ▲/▼ buttons to select an item, and the ► or **ENTER** button on the remote control to perform the item. MIU SETUP DHCP ON IP ADDRESS SUBNET MASK DEFAULT GATEWAY DNS SERVER TIME DIFFERENCE DATE AND TIME MODE CH ENCRYPTION SSID SPEED NETWORK MODE
DHCP (Dynamic Host Configuration Protocol)	Use the ▲/▼ buttons to turn DHCP on/off. ON ⇔ OFF Select OFF when the network does not have DHCP enabled. • When the "DHCP" setting changes to "ON", it takes a little time to obtain IP address from DHCP server. • Auto IP function will be assigned an IP address if the projector could not obtain an IP address from server even if DHCP is "ON".
IP ADDRESS	Use the ▲/▼/◄/► buttons to enter the IP ADDRESS. This function can only be used when DHCP is set to OFF. • The IP ADDRESS is the number that identifies this projector on the network. You cannot have two devices with the same IP ADDRESS on the same network. • The IP ADDRESS "0.0.0.0" is prohibited.
SUBNET MASK	Use the ▲/▼/◄/► buttons to enter the same SUBNET MASK used by your PC. This function can only be used when DHCP is set to OFF. • The SUBNET MASK "0.0.0.0" is prohibited.
DEFAULT GATEWAY	Use the ▲/▼/◄/► buttons to enter the DEFAULT GATEWAY (a node on a computer network that serves as an access point to another network) address. This function can only be used when DHCP is set to OFF.
DNS SERVER	Use the ▲/▼/◄/► buttons to input the DNS server address. The DNS server is a system to control domain names and IP addresses on the Network.
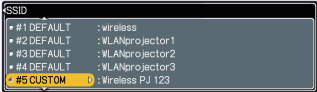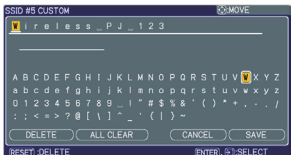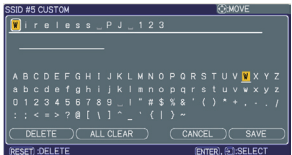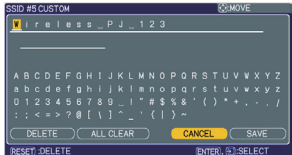
(continued on next page)

MIU menu (continued)

Item		Description
SETUP (continued)	**TIME DIFFERENCE**	Use the ▲/▼ buttons to enter the TIME DIFFERENCE. Set the same TIME DIFFERENCE as the one set on your PC. If unsure, consult your IT manager. Use the ◄ button to return to the menu after setting the TIME DIFFERENCE.
	DATE AND TIME	Use the ▲/▼/◄/► buttons to enter the Year (last two digits), Month, Date, Hour and Minute. • The projector will override this setting and retrieve DATE AND TIME information from the Time server when SNTP is enabled. (□4.1.8 Date/Time Settings of the User's Manual - Network Guide)
	MODE	Use the ▲/▼ buttons to select the mode of the network communication system. Select it according to the setting of your PC. ADHOC ⇔ INFRASTRUCTURE
	CH	Use the ▲/▼ buttons to select the channel of the wireless LAN while using it. Select it according to the setting of your PC. The channels 1 to 11 are available. • The available channels would be various depending on a country. In addition, wireless network card might be required due to the standard.
	ENCRYPTION	Use the ▲/▼ buttons to select the encryption method to be used. WPA2-PSK(AES) ⇔ WPA-PSK(AES) ⇔ WPA-PSK(TKIP) ⟹ OFF ⇔ WEP 64bit ⇔ WEP 128bit ⟸
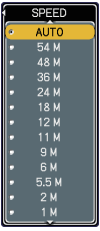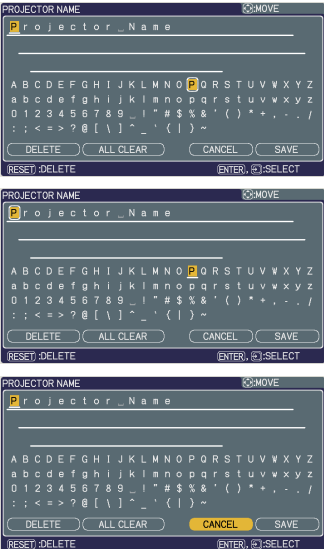
(continued on next page)

MIU menu (continued)

Item	Description
SETUP (continued)	**SSID**	Use the ▲/▼ buttons to select the SSID to display the SSID menu.

Item		Description
SETUP (continued)	**SSID**	Use the ▲/▼ buttons to select the SSID to display the SSID menu. **DEFAULT** Pressing the ► or **ENTER** button when one of the DEFAULT (#1~#4) is selected. **CUSTOM** Press the ► or **ENTER** button when the # 5 CUSTOM is selected. The SSID #5 CUSTOM menu will be appeared. (1) The current SSID will be displayed on the first line. If not yet written, the line will be blank. Use the ▲/▼/◄/► buttons and the **ENTER** or **INPUT/ENTER** button to select and enter characters. The **RESET** button can be used to erase 1 character at a time. Also if you move the cursor to DELETE or ALL CLEAR on screen and push the **ENTER** or **INPUT/ENTER** button, 1 character or all characters will be erased. The SSID can be input up to 32 characters. (2) To change an already inserted character, press the ▲/▼ button to move the cursor to one of the first 2 lines, and use the ◄/► buttons to move the cursor on the character to be changed. After pressing the **ENTER** or **INPUT/ ENTER** button, the character is selected. Then, follow the same procedure as described at the item (1) above. (3) To finish entering text, move the cursor to the SAVE on screen and press the **ENTER** or **INPUT/ENTER** button. To revert to the previous SSID without saving changes, move the cursor to the CANCEL on screen and press the **ENTER** or **INPUT/ENTER** button.

(continued on next page)

MIU menu (continued)

Item	Description
SETUP (continued)	Use the ▲/▼ buttons to select the transfer rate. (M : Mbps : Megabits per second) AUTO⇔54M⇔48M⇔36M⇔24M⇔18M ⇕　　　　　　　　　　　　　　⇕ 1M⇔2M⇔5.5M⇔6M⇔9M⇔11M⇔12M • The AUTO mode automatically selects the optimum rate. • Transfer rates may change due to the network situation. **SPEED**
	Use the ▲/▼ buttons to select the network mode. WIRELESS ⇔ WIRED • The network mode will be initialized whenever the power is turned on with the power switch. • The WIRELESS will be enabled when the wireless network card is inserted. • The WIRED will be enabled when the wireless network card is not inserted. **NETWORK MODE**
PROJECTOR NAME	(1) Use the ▲/▼ buttons on the MIU menu to select the PROJECTOR NAME menu and press the ► button. The PROJECTOR NAME dialog will be displayed. (2) The current PROJECTOR NAME will be displayed on the first 3 lines. If not yet written, the lines will be blank. Use the ▲/▼/◄/► buttons and the **ENTER** or **INPUT/ENTER** button to select and enter characters. The **RESET** button can be used to erase 1 character at a time. Also if you move the cursor to DELETE or ALL CLEAR on screen and push the **ENTER** or **INPUT/ENTER** button, 1 character or all characters will be erased. The PROJECTOR NAME can be input up to 64 characters. (3) To change an already inserted character, press the ▲/▼ button to move the cursor to one of the first 3 lines, and use the ◄/► buttons to move the cursor on the character to be changed. After pressing the **ENTER** or **INPUT/ENTER** button, the character is selected. Then, follow the same procedure as described at the item (2) above. (4) To finish entering text, move the cursor to the SAVE on screen and press the **ENTER** or **INPUT/ENTER** button. To revert to the previous PROJECTOR NAME without saving changes, move the cursor to the CANCEL on screen and press the **ENTER** or **INPUT/ENTER** button.
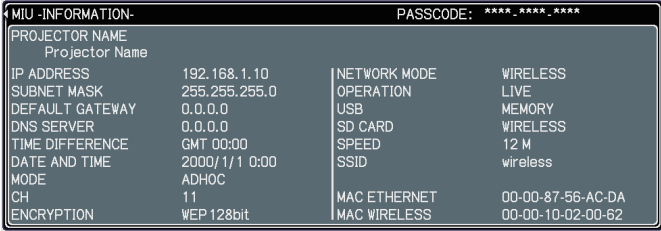
MIU menu (continued)

Item	Description
MY IMAGE	Selecting this item displays the MY IMAGE menu. Insert the SD memory card or USB memory into the projector before you use the MY IMAGE function (📖*10*). The application software "PJTransfer" is required to store image(s) into the projector.
	Use the ▲/▼ buttons to select an item which is a still image by the MY IMAGE (📖*4.5 MY IMAGE (Still Image Transfer) Display of the User's Manual - Network Guide)* and the ► or **ENTER** button to display the image.
	• The item without image stored cannot be selected. • The image names are each displayed in 16 characters or less. **To switch the image displayed** Use the ▲/▼ buttons. **To return to the menu** Press the ◄ or **ESC** button on the remote control. **To erase the image displayed and its source file in the SD memory card or USB memory** (1) Press the **RESET** button on the remote control while displaying an image to display the MY IMAGE - RESET menu. (2) Press the **ENTER** button on the remote control or the **INPUT/ ENTER** button on the projector to perform to erase. To stop erasing, press the **ESC** button on the remote control or the ◄ button on the projector.

(continued on next page)

MIU menu (continued)

Item	Description
INFORMATION	Selecting this item displays the MIU-INFORMATION- dialog for confirming the network settings. MIU -INFORMATION- PASSCODE: ****-****-**** PROJECTOR NAME Projector Name IP ADDRESS 192.168.1.10 NETWORK MODE WIRELESS SUBNET MASK 255.255.255.0 OPERATION LIVE DEFAULT GATEWAY 0.0.0.0 USB MEMORY DNS SERVER 0.0.0.0 SD CARD WIRELESS TIME DIFFERENCE GMT 00:00 SPEED 12 M DATE AND TIME 2000/1/1 0:00 SSID wireless MODE ADHOC CH 11 MAC ETHERNET 00-00-87-56-AC-DA ENCRYPTION WEP128bit MAC WIRELESS 00-00-10-02-00-62 • The PROJECTOR NAME is displayed. • Nothing (blank) is shown in the "PROJECTOR NAME" and "SSID" field until you setup those items (📖*56, 57*). • When the voltage level of the battery for the built in clock decreases, the set time may become incorrect even though accurate date and time are input. Replace the battery suitably (📖*64*). • MAC wireless will not be displayed when the NETWORK MODE is set to the WIRED even if the wireless network card is mounted. • IP ADDRESS, SUBNET MASK and DEFAULT GATEWAY indicate "0.0.0.0" in the following condition. (1) The NETWORK MODE is set to the WIRELESS and the wireless network card is not mounted. (2) DHCP is ON and the projector does not get address from DHCP server. • Nothing (blank) is shown in the "CH", "SPEED" and "MAC WIRELESS" field in case of either no wireless network card is inserted or "WIRED" mode is selected at NETWORK MODE, or both. • The actual performance and setting will be shown in the "CH " and "SPEED" field, instead of the setting value in the SETUP menu.
SERVICE	Selecting this item displays the SERVICE menu. Use the ▲/▼ buttons to select an item, and the ► or **ENTER** button on the remote control to perform the item. SERVICE MIU RESTART ▷ **MIU RESTART** Use the ▲ button to restart the network communication. The network communication will be cut off once and restarted. MIU RESTART EXECUTE CANCEL EXECUTE ⇔ CANCEL • After selecting the EXECUTE, the MIU menu may not be controlled approximately 20 seconds. • If DHCP is ON, IP address may be changed.
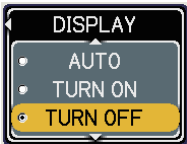
C.C. (Closed Caption) menu

The closed caption setting can be changed through C.C. menu in the advance menu. Please select the item that you will change using ▲/▼ cursor buttons.
• The C.C. (Closed Caption) is the function that displays a transcript or dialog of the audio portion of a video, files or other presentation or other relevant sounds. It is required to have NTSC format video or 480i@60 format component video source supporting C.C. feature to utilize this function.
It may not work properly, depending on equipment or signal source. In this case, please turn off the Closed Caption.

Item	Description
DISPLAY	Select Closed Caption DISPLAY setting from following options using ▲/▼buttons. TURN OFF ⇔ TURN ON ⇔ AUTO TURN OFF:Closed Caption is OFF TURN ON: Closed Caption is ON AUTO: Closed Caption automatically displays when the volume is muted. • The caption is not displayed when the OSD menu is active. • The Closed Caption is the function to display the dialogue, narration, and / or sound effects of a television program or other video sources. The Closed Caption availability is depending upon broadcaster and/or content.
MODE	Select Closed Caption MODE setting from following options using ▲/▼buttons. CAPTIONS ⇔ TEXT CAPTIONS: Display Closed Caption TEXT: Display Text data, which is for additional information such as news reports or a TV program guide. The information covers the entire screen. Not all of the C.C. program has Text information.
CHANNEL	Select Closed Caption CHANNEL from following options using ▲/▼buttons. 4 ⇔ 3 ⇔ 2 ⇔ 1 1: Channel 1, primary channel / language 2: Channel 2 3: Channel 3 4: Channel 4 The channel data may vary, depending on the content. Some channel might be used for secondary language or empty.

Lamp

A lamp has finite product life. Using the lamp for long periods of time could cause the pictures darker or the color tone poor. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. Preparation of a new lamp and early replacement are recommended. To prepare a new lamp, contact your dealer and tell the lamp type number.

Type number : DT00781

Replacing the lamp

The lamp cover

1. Turn the projector off, and unplug the power cord. Allow the projector to cool for at least 45 minutes.

2. Prepare a new lamp.
   If the projector is mounted on a ceiling, or if the lamp has broken, also ask the dealer to replace the lamp.
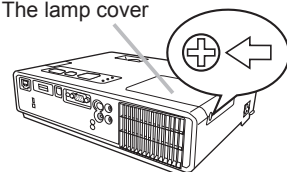
In case of replacement by yourself,

3. Loosen the screw (marked by arrow) of the lamp cover and then slide the lamp cover to the side to remove it.

4. Loosen the 2 screws (marked by arrow) of the lamp, and slowly pick up the lamp by the handle. It may make it easy to take the lamp out slightly toward the control panel of the projector.

The handle
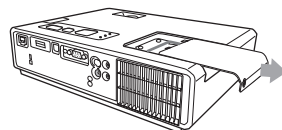
5. Insert the new lamp, and retighten firmly the 2 screws of the lamp that are loosened in the previous process to lock it in place. Tighten the screw ① first, then screw ②.
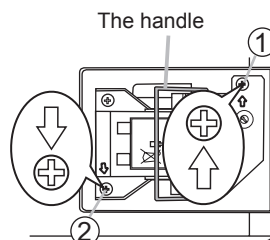
6. Slide the lamp cover back in place and firmly fasten the screw of the lamp cover.

7. Turn the projector on and reset the lamp time using the LAMP TIME item in the OPTION menu.
(1) Press the **MENU** button to display a menu.
(2) Point at the "Go to Advanced Menu …" in the menu using the ▼/▲ button, then press the ► button.
(3) Point at the "OPTION" in the left column of the menu using the ▼/▲button, then press the ► button.
(4) Point at the "LAMP TIME" using the ▼/▲ button, then press the ► button. A dialog will appear.
(5) Press the ▲ button to select "RESET" on the dialog. It performs resetting the lamp time.
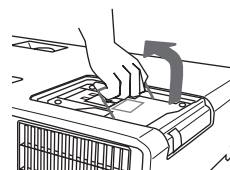
⚠**CAUTION** ►Do not touch any inner space of the projector, while the lamp is taken out.

NOTE • Please reset the lamp time only when you have replaced the lamp, for a suitable indication about the lamp.

Lamp (continued)

Lamp warning

⚡ **HIGH VOLTAGE**   ⚠ **HIGH TEMPERATURE**   🔥 **HIGH PRESSURE**

⚠**WARNING** ►The projector uses a high-pressure mercury glass lamp. The lamp can break with a loud bang, or burn out, if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury to escape from the projector's vent holes.

►**About disposal of a lamp:** This product contains a mercury lamp; do not put it in a trash. Dispose of it in accordance with environmental laws.
• For lamp recycling, go to www.lamprecycle.org. (in the US).
• For product disposal, contact your local government agency
  or www.eiae.org (in the US) or www.epsc.ca (in Canada).
For more information, call your dealer.

Disconnect the plug from the power outlet	• If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself. • If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to breathe the gas that comes out of the projector vents, or get it in your eyes or mouth. • Before replacing the lamp, turn the projector off and unplug the power cord, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as damaging the lamp.
🚫	• Never unscrew except the appointed (marked by an arrow) screws. • Do not open the lamp cover while the projector is suspended from above. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken. • Do not use the projector with the lamp cover removed. At the lamp replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.
❗	• Use only the lamp of the specified type. • If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative. • Handle with care: jolting or scratching could cause the lamp bulb to burst during use. • Using the lamp for long periods of time could cause it dark, not to light up or to burst. When the pictures appear dark, or when the color tone is poor, please replace the lamp as soon as possible. Do not use old (used) lamps; this is a cause of breakage.

Air filter

Please check and clean the air filter periodically. When the indicators or a message prompts you to clean the air filter, comply with it as soon as possible. Replace the air filter when it is damaged or too soiled. To prepare a new air filter, contact your dealer and tell the air filter type number.

Type number : MU03602

When you replace the lamp, please replace the air filter. An air filter of specified type will come together with a replacement lamp for this projector.

Cleaning the air filter

1. Turn the projector off, and unplug the power cord. Allow the projector to sufficiently cool down.

2. Use a vacuum cleaner on and around the filter cover.

3. While supporting the projector with one hand, use your other hand to pull the filter cover forward in the direction of the arrow.

4. Use a vacuum cleaner for the filter ventilation of the projector. And clean the air filter that is set at one side of the filter cover by using a vacuum cleaner over the other side of the filter cover. Please replace the air filter when it is damaged or too soiled. When the air filter is set, take its half moon shape cut part to the swelled part of the filter cover.

5. Put the filter unit back into the projector.

6. Turn the projector on and reset the filter time using the FILTER TIME item in the EASY MENU.

(1) Press the **MENU** button to display a menu.
(2) Point at the "FILTER TIME" using the ▼/▲ button, then press the ► button. A dialog will appear.
(3) Press the ▲ button to select "RESET" on the dialog. It performs resetting the filter time.
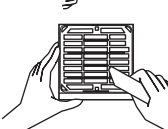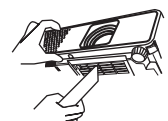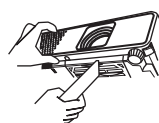
The filter cover

The air filter is set in the reverse side

Swelled part

Air filter
Filter cover
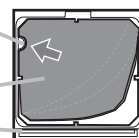
⚠**WARNING** ►Before taking care of the air filter, make sure the power cable is not plugged in, then allow the projector to cool sufficiently.
►Use only the air filter of the specified type. Do not use the projector without the air filter or the filter cover. It could result in a fire or malfunction to the projector.
►Clean the air filter periodically. If the air filter becomes clogged by dust or the like, internal temperatures rise and could cause a fire, a burn or malfunction to the projector.

NOTE • Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter.
• The projector may display the message such as "CHECK THE AIR FLOW" or turn off the projector, to prevent the internal heat level rising.

Internal clock battery

Consumption of the battery makes the clock not to work correctly. When the clock is wrong or it has stopped, please replace the battery according to the following procedures.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.

2. After making sure that the projector has cooled adequately, pull the slot cover forward, pushing slightly its edge up, and remove it from the projector.

3. Remove the battery case.
Hold the battery case gutter by finger nail or other thing and pull out the battery case slowly from the battery slot.

4. Take the old battery out from the battery case.

5. Replace a new battery.
Replace battery with **HITACHI MAXELL, Part No.CR2032 or CR2032H** only. Use of another battery may present a risk of fire or explosion.
Put a new battery into battery case. Please make sure that the + is facing upward. Insert the battery case slowly into the battery slot until you hear the snap.

6. Close the slot cover.
Replace the slot cover by reversing the procedure used when removing the cover.

Slot Cover

Battery Slot

Battery Case

Battery

Battery Case

Battery (+)

Battery Case
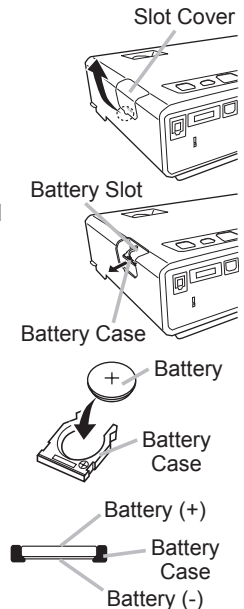
Battery (-)

⚠**WARNING** ►Always handle the batteries with care and use them only as directed. Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.
And also improper use may result in cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.
• Be sure to use only the batteries specified. Do not use batteries of different types at the same time. Do not mix a new battery with used one.
• Make sure the plus and minus terminals are correctly aligned when loading a battery.
• Keep a battery away from children and pets. If swallowed consult a physician immediately for emergency treatment.
• Do not short circuit or solder a battery.
• Do not allow a battery in a fire or water. Keep batteries in a dark, cool and dry place.
• If you observe a leakage of a battery, wipe out the flower and then replace a battery.
If the liquid adheres to your body or clothes, rinse well with water immediately.
• Obey the local laws on disposing the battery.

NOTE • The internal clock's time will be reset when the battery is removed. Please reconfigure the time via the menu or a web browser after replacing the battery. (🕮 **4.1.8 Date/Time Settings of the User's Manual - Network guide**)

Other care

Inside of the projector

In order to ensure the safe use of your projector, please have it cleaned and inspected by your dealer about once every year.

Caring for the lens

If the lens is flawed, soiled or fogged, it could cause deterioration of display quality. Please take care of the lens, being cautious of handling.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.

2. After making sure that the projector is cool adequately, lightly wipe the lens with a commercially available lens-cleaning wipe. Do not touch the lens directly with your hand.

Caring for the cabinet and remote control

Incorrect care could have adverse influence such as discoloration, peeling paint, etc.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.

2. After making sure that the projector is cool adequately, lightly wipe with gauze or a soft cloth.
   If the projector is extremely dirty, dip soft cloth in water or a neutral cleaner diluted in water, and wipe lightly after wringing well. Then, wipe lightly with a soft, dry cloth.

⚠**WARNING** ►Before caring, make sure the power cable is not plugged in, and then allow the projector to cool sufficiently. The care in a high temperature state of the projector could cause a burn and/or malfunction to the projector.
►Never try to care for the inside of the projector personally. Doing is so dangerous.
►Avoid wetting the projector or inserting liquids in the projector. It could result in a fire, an electric shock, and/or malfunction to the projector.
• Do not put anything containing water, cleaners or chemicals near the projector.
• Do not use aerosols or sprays.
⚠**CAUTION** ►Please take right care of the projector according to the following. Incorrect care could cause not only an injury but adverse influence such as discoloration, peeling paint, etc.
►Do not use cleaners or chemicals other than those specified in this manual.
►Do not polish or wipe with hard objects.

Troubleshooting

If an abnormal operation should occur, stop using the projector immediately.

⚠**WARNING** ►Never use the projector if abnormal operations such as smoke, strange odor, excessive sound, damaged casing or elements or cables, penetration of liquids or foreign matter, etc. should occur. In such cases, immediately disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer or service company.

Otherwise if a problem occurs with the projector, the following checks and measures are recommended before requesting repair.
If this does not resolve the problem, please contact your dealer or service company. They will tell you what warranty condition is applied.

Related messages

When some message appears, check and cope with it according to the following table. Although these messages will be automatically disappeared around several minutes, it will be reappeared every time the power is turned on.

Message	Description
NO INPUT IS DETECTED ✳✳✳	**There is no input signal.** Please confirm the signal input connection, and the status of the signal source.
SYNC IS OUT OF RANGE ✳✳✳ fH ✳✳kHz fV ✳✳Hz	**The horizontal or vertical frequency of the input signal is not within the specified range.** Please confirm the specs for your projector or the signal source specs.
INVALID SCAN FREQ. ✳✳✳	**An improper signal is input.** Please confirm the specs for your projector or the signal source specs.
CHECK THE AIR FLOW	**The internal temperature is rising.** Please turn the power off, and allow the projector to cool down at least 20 minutes. After having confirmed the following items, please turn the power ON again. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? If the same indication is displayed after the remedy, please set FAN SPEED of the SERVICE item in the OPTION menu to HIGH.
REMINDER **✳✳✳ HRS PASSED AFTER THE LAST FILTER CHECK.** FILTER MAINTENANCE IS ESSENTIAL TO REMOVE WARNING MESSAGE, RESET FILTER TIMER. SEE MANUAL FURTHER INFO.	**A note of precaution when cleaning the air filter.** Please immediately turn the power off, and clean or change the air filter referring to the "Air Filter" section of this manual. After you have cleaned or changed the air filter, please be sure to reset the filter timer (📖*63*).

Regarding the indicator lamps

When operation of the **LAMP**, **TEMP** and **POWER** indicators differs from usual, check and cope with it according to the following table.

POWER indicator	LAMP indicator	TEMP indicator	Description
Lighting In **Orange**	Turned **off**	Turned **off**	**The projector is in a standby state.** Please refer to the section "Power on/off".
Blinking In Green	Turned **off**	Turned **off**	**The projector is warming up.** Please wait.
Lighting In **Green**	Turned **off**	Turned **off**	**The projector is in an on state.** Ordinary operations may be performed.
Blinking In Orange	Turned **off**	Turned **off**	**The projector is cooling down.** Please wait.
Blinking In Red	(discretionary)	(discretionary)	**The projector is cooling down. A certain error has been detected.** Please wait until the **POWER** indicator finishes blinking, and then perform the proper measure using the item descriptions below.
Blinking In Red or Lighting In **Red**	Lighting In **Red**	Turned **off**	**The lamp does not light, and there is a possibility that interior portion has become heated.** Please turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? If the same indication is displayed after the remedy, please change the lamp referring to the section "Lamp".
Blinking In Red or Lighting In **Red**	*Blinking In Red*	Turned **off**	**The lamp cover has not been properly fixed.** Please turn the power off, and allow the projector to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp cover. After performing any needed maintenance, turn the power on again. If the same indication is displayed after the remedy, please contact your dealer or service company.
Blinking In Red or Lighting In **Red**	Turned **off**	*Blinking In Red*	**The cooling fan is not operating.** Please turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation that no foreign matter has become caught in the fan, etc., and then turn the power on again. If the same indication is displayed after the remedy, please contact your dealer or service company.

### *Regarding the indicator lamps (continued)*

POWER indicator	LAMP indicator	TEMP indicator	Description
*Blinking In **Red** or* Lighting In **Red**	Turned **off**	Lighting In **Red**	**There is a possibility that the interior portion has become heated.** Please turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? If the same indication is displayed after the remedy, please set FAN SPEED of the SERVICE item in the OPTION menu to HIGH.
Lighting In **Green**	Simultaneous *blinking in **Red***		**It is time to clean the air filter.** Please immediately turn the power off, and clean or change the air filter referring to the section "Air Filter". After cleaning or changing the air filter, please be sure to reset the filter timer. After the remedy, reset the power to ON.
Lighting In **Green**	Alternative *blinking in **Red***		**There is a possibility that the interior portion has become overcooled.** Please use the unit within the usage temperature parameters (5°C to 35°C). After the treatment, reset the power to ON.
*Blinking in **Green** for* approx. 3 seconds	Turned **off**	Turned **off**	**At least 1 "Power ON" schedule is saved to the projector.** (Please refer to the 📖4.1.7 Schedule settings of User's Manual - Network Guide for more information.)

NOTE • When the interior portion has become overheated, for safety purposes, the projector is automatically shut down, and the indicator lamps may also be turned off. In such a case, disconnect the power cord, and wait at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.

Shutting the projector down

Only when the projector can not be turned off by usual procedure (📖*14*), please push the shutdown switch using a pin or similar, and disconnect the power plug from the power outlet. Before turning it on again, wait at least 10 minutes to make the projector cool down enough.

Shutdown switch
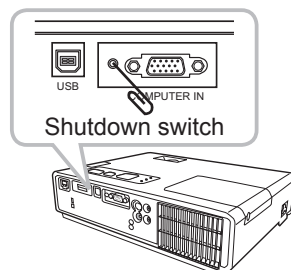
Resetting all settings

When it is hard to correct some wrong settings, the FACTORY RESET function of the SERVICE item in the OPTION menu (📖*44*) can reset all settings (except LANGUAGE, FILTER TIME, LAMP TIME, FILTER MESSAGE, MIU and etc.) to the factory default.

Phenomena that may be easy to be mistaken for machine defects

About the phenomenon confused with a machine defect, check and cope with it according to the following table.

Phenomenon	Cases not involving a machine defect	Reference page
Power does not come on.	**The electrical power cord is not plugged in.** Correctly connect the power cord.	11
	The main power source has been interrupted during operation such as by a power outage (blackout), etc. Please disconnect the power plug from the power outlet, and allow the projector to cool down at least 10 minutes, then turn the power on again.	11, 14
	Either there is no lamp and/or lamp cover, or either of these has not been properly fixed. Please turn the power off and disconnect the power plug from the power outlet, and allow the projector to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.	61
Neither sounds nor pictures are outputted.	**The signal cables are not correctly connected.** Correctly connect the connection cables.	8
	Signal source does not correctly work. Correctly set up the signal source device by referring to the manual of the source device.	–
	The input changeover settings are mismatched. Select the input signal, and correct the settings.	16, 17
Sound does not come out.	**The signal cables are not correctly connected.** Correctly connect the audio cables.	8
	The MUTE function is working. Restore the sound pressing the **MUTE** or **VOLUME** button on the remote control.	15
	The volume is adjusted to an extremely low level. Adjust the volume to a higher level using the menu function or the remote control.	35
	The AUDIO setting is not correct. Correctly set the AUDIO in the SETUP menu.	35
No pictures are displayed.	**The lens cover is attached.** Remove the lens cover.	14
	The signal cables are not correctly connected. Correctly connect the connection cables.	8

Phenomena that may be easy to be mistaken for machine defects (continued)

Phenomenon	Cases not involving a machine defect	Reference page
No pictures are displayed. (continued)	**The brightness is adjusted to an extremely low level.** Adjust BRIGHTNESS to a higher level using the menu function or the remote control.	24, 25
	The computer cannot detect the projector as a plug and play monitor. Make sure that the computer can detect a plug and play monitor using another plug and play monitor.	9
	The BLANK screen is displayed. Press the **BLANK** button on the remote control.	21
Video screen display freezes.	**The FREEZE function is working.** Press the **FREEZE** button to restore the screen to normal.	21
Colors have a faded- out appearance, or Color tone is poor.	**Color settings are not correctly adjusted.** Perform picture adjustments by changing the COLOR TEMP, COLOR, TINT and/or COLOR SPACE settings, using the menu functions.	26, 30
	COLOR SPACE setting is not suitable. Change the COLOR SPACE setting to AUTO, RGB, SMPTE240, REC709 or REC601.	30
Pictures appear dark.	**The brightness and/or contrast are adjusted to an extremely low level.** Adjust BRIGHTNESS and/or CONTRAST settings to a higher level using the menu function.	24, 25
	The WHISPER function is working. Select NORMAL for the WHISPER item in the SETUP menu.	24, 33
	The lamp is approaching the end of its product lifetime. Replace the lamp.	61
Pictures appear blurry.	**Either the focus and/or horizontal phase settings are not properly adjusted.** Adjust the focus using the focus ring, and/or H PHASE using the menu function.	18, 29
	The lens is dirty or misty. Clean the lens referring to the section "Caring for the lens".	65

NOTE • Although bright spots or dark spots may appear on the screen, this is a unique characteristic of liquid crystal displays, and it does not constitute or imply a machine defect.

Specifications

Item		Specification	
Product name		Liquid crystal projector	
Liquid Crystal Panel	Panel size	1.6 cm (0.63 type)	
	Drive system	TFT active matrix	
	Pixels	786,432 pixels (1024 horizontal x 768 vertical)	
Lens		Zoom lens F=1.8 ~ 1.9 f = 16.4~ 19.7 mm	
Lamp		160W UHB	
Speaker		1 W x1	
Power supply		AC100-120V/2.8A, AC220-240V/1.4A	
Power consumption		250 W	
Temperature range		5 ~ 35°C (Operating)	
Size		274 (W) x 65 (H) x 205 (D) mm * Not including protruding parts. Please refer to the following figure.	
Weight (mass)		1.8 kg	
Ports		**Computer input port** COMPUTER IN ....D-sub 15 pin mini x1 **Video input port** S-VIDEO.................S-video x1 VIDEO .... video x1	**Audio input/output port** AUDIO IN ....Stereo mini x1 AUDIO OUT .....Stereo mini x1 **Others** USB STORAGE ......USB-A x1 SD card .... SD card slot x1 USB ....USB-B x1 LAN RJ45 x1
Optional parts		**Lamp**: DT00781 **Air filter**: MU03602 * Please consult your dealer.	

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274

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[unité: mm]